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SEEd Trade Buyers Guide

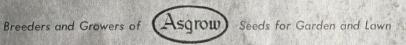
SILVER JUBILEE 25th EDITION

PUBLISHED FROM THE OFFICES OF SEED WORLD, CHICAGO



Scarlet Dawn - All-America Gold Medal

ASSOCIATED SEED GROWERS, INC.



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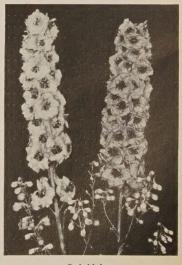
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CALIFORNIA

TABLE OF CONTENTS

		106
A	Bureau of Plant Industry,	Display Racks, seed packet 196
AAA	personnel 104	Displays, illuminated
Advertising Index 234	Burlap, nursery 195	Distributors, fertilizer 170
ASTA, committees 12	Burners, weed 168	District of Columbia 154
ASTA, officers10-12	Buyers Guide, statement about 9	Dockage Testers 196
Advertising for Seedsmen 194		Dog Food 170
Advertising Index	C	Dog Supplies 170
Agricultural Marketing Service. 104	Cabbage at a Glance 156	Driers, seed 190
	Cacti 90	Drills, seed
Agricultural Statistics Division,	California Seed Ass'n, officers 10	Dust Collectors 190
USDA 104	California Seed Law 108	Dust Protectors 196
Alabama Seed Dealers' Ass'n,	Canada Bluegrass Seed Imports. 206	Dusters 1/3
officers	Canary Seed 90	Dusts
	Canvas Covers	E
	Cans, fibre and tin	172
Alfalfa Mills	Cans, watering	Egg Preservatives
Alfalfa Seed Exports	Carbolineum (Anthracene Oil) 168	Electric Hedge Trimmers 173
Alfalfa Seed Imports 205	Cartons, bird seed 167	Electrotypes of Flowers 196
All-America Selections 14	Cartons, lithographed	Elevators, air-lift 196
Allied Lines 166	Cartons, paper	Elevators, electric
Allied Trades Trade Marks and		Envelope Sealers 197
Slogans	Cartons, printed	Envelopes
Alsike Clover Seed Imports 205	Carts, garden or lawn 168 Cat Food and Supplies 168	Equipment and Supplies 194
Animal Dips 166	and the second s	Eradicators, worm
Anthracene Oil	Catalog Colored Covers 195	Erosion Control 174
Aguariums and Supplies 166	Catalog Envelopes	Evergreens 92
Arkansas Saad Law	Catalog Printers 195	Exports, alfalfa, clover and
Arkansas Seed Law	Catalog Printers	timothy
Artificial Flower Seed Germina-	Cellophane Packeted Seeds 91 Cement, canvas 196	Exterminators, ant
Aspirators seed corp. 194	Chaffy Grasses, tolerance tables 64-70	Exterminators, fly
Aspirators, seed corn	Charcoal	Exterminators, mole and gopher. 174
Associations, seed		Exterminators, pest
Augers, tree and earth 166	Chewings Fescue Seed Imports 208 Chick Boxes	Exterminators, rat 174
В		F
The second secon	Christman Crange 168	Farming Wills 107
Bag Cleaners	Christmas Greens 168	Fanning Mills
Bag Closing Machines 194	Christmas Trees	Farm Implements
Bag Filling Machines 194	Classified List of Seeds	Federal Seed Act
Bag Holders	corn	Federal Seed Act, administration
Bag Pilers, conveyors	Cleaners, grain and seed 196	of 104
Bag Stitching Machines 195	Clover, exports	Federal Seed Act, tolerance
Bags, cellulose	Cod Liver Oil	tables64-70
Bags, cotton or burlap 195	Colchicine Alkaloid	Federal-State Seed Laboratories. 104
Bags, fruit picker	Color Reproductions 196	Feed Hoppers
Bags, paper 195	Colorado Seed Law	Feed, poultry
Bags, Seamless "A"	Colorado Seedsmen's Ass'n,	Feed, stock
Bags, waterproof	officers	Feeders, bird
Bait, insect—weevil 166	Compost Makers	Fencing
Bamboo Stakes	Connecticut Seed Law	Fenugreek 92
Bands, leg	Connecticut Seed Trade Ass'n,	Fertilizers, lawn
Bands, plant	officers	Fertilizers and Plant Foods 175
Barrows, garden	Copper Oxide. red	Fescue Seed Imports 208
Baskets	Corn at a Glance	Field Crops Planting Instructions 86
Baskets, hanging 166	Corn Crackers	Field and Grass Seed Information 203
Beans at a Glance 155	Corn, seed	Field Seed, germination table 62
Bees 166	Counters, store	Field Seed, wholesale listings 72
Bee Books	Coupling, hose	Field Seed, tolerance tables64-70
Bee Hives	Cow Manure	Field Warehousing
Bee Supplies 166	Crab Grass Killer 169	Financing
Belting 195	Creosote Oil	Fish Foods 176
Bent Grass Seed Imports 208	Crested Dogtail Seed Imports 208	Flats, seed
Biggio, A. J	Crimson Clover Seed Imports 205	Florida Seed Law 111
Bird Books	Crop Seed, tolerance tables64-70	Florida Seedsmen's Ass'n, officers 10
Bird Cages and Stands 166	Crops, planting instructions 86	Florists' Supplies 176
Bird Food 166	Crushers 196	Flower Seed Germination by Arti-
Bird Houses 179	Cucumbers at a Glance 160	ficial Means 211
Bird Rape 166	Cultivators, garden 169	Flower Seed, germination table 62
Bird Seed Cartons 167	Cut Flower Plant Food 185	Flower Seed Growers 88
Bird Seeds, wild 98	Cutters, sod 169	Flowers, All-America Selections. 14
Bird Supplies	Cuttle Bone 169	Flowers, artificial
Birds 167	Cylinders 169	Food Values 32
Bleachers, celery 167	D	Forcers, seed and plant 176
Bluegrass Seed Imports 208		Forks, garden 176
Books, bird 166	Dahlia Roots 91	Formaldehyde Dust
Books, farm and garden 167	Dahlias, boxed	Foreign Names of Vegetables 60
Books, tree	Dairy Supplies	Foreign Seed Houses 82
Bowls, bulb 167	Delaware Seed Law 110	Fountains, drinking 177
Boxes, chick	Department of Agriculture,	Foxtail Millet Seed Imports 207
Boxes, flower	directory 104	French Names of Vegetables 60
Boxes, parcel post	Dibbles	Fruit Drop Prevention 177
Boxes, transplanting 167	Diggers, dandelion 169	Fruit Trees 92
Braids, tying 167	Dips, animal	Fumigants
Brokers 90	Directory of USDA 104	Fumigants, greenhouse 177
Brooders	Diseases, sprays for	Fumigation 197
Bulb Edge Glass 168	Disinfectants, animal	Fungicides
Bulbs 90	Disinfectants, seed 170	Furniture, lawn 178

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G	K	Nickeltypes
Garden Seed Growers 5	Kendel, C. E	North Dakota Seed Law 140
Garden Seed Wholesalers 5	Kentucky Seed Dealers' Ass'n,	North Carolina Seed Law 139
Garden Tractors 17	officers 10	North Carolina Seedsmen's Ass'n,
Gazing Globes	Kentucky Seed Law 122	officers
Georgia Seed Law	Knee Pads	officers
German Names of Vegetables	Kodachromes	Novelties 184
Germination of Flower Seed by	itodaem omes	Novelty Mailing Envelopes 198
Artificial Means 21	L	Noxious Weed Seed, tolerance
Germination, seed table 6		tables
Germination Standards, vegetable 10 Germinators	Labels	Nursery Stock 93
Glass, greenhouse	Labels and Hangers, box 198	Nutrient Solution Testing 185
Glass Substitute 17	Labels, plant 181	Nutrients in food 32
Globes, gazing 17	Laboratories, Standard Reference	Nutrition Table of Food Values. 32
Glossary of Federal Agencies 21	Laboratory	
Gloves, garden	Laboratory Equipment	0
Gourds	Lawn Edge Trimmers 181	Oat Crushers 198
Graders, bean 19	Lawn Fertilizers 181	Officers of Associations10, 12
Graders, corn	Lawn Grass Seed 92	Ohio Seed Dealers' Ass'n, officers 10
Grafting Tools	Lawn Mowers 184	Ohio Seed Law 142
Grain & Seed Division, USDA 10	Lawn Rollers	Oklahoma Seed Law 144
Grain and Seed Treating Equip-	Legumes, the big family of 24	Onion Set Growers 94 Onions at a Glance 156
ment 19	Lettuce at a Glance 156	Orchard Grass Seed Imports 206
Grass and Field Seed Information 20	Lima Beans at a Glance 160	Oregon Seed Law 144
Greenhouse glass	Lime	Ornamentals 94
Greenhouse Material	Liquid Plant Food	Oyster Shells 185
Grinders, feed	Louisiana Seed Dealers' Ass'n,	
Grinders, hand 17	officers 10	P
Grit 17	Louisiana Seed Law 123	
Growers, flower seed		Pacific States Seedsmen's Ass'n,
Guns, spray	M	officers
	Mailing Envelopes 198	Packaging Scales 198
: H	Maine Seed Law 124	Packet Filling 198
	Manure, cow 183	Packet Filling Machines 199
Hairy Vetch Seed Imports 20	Manure, Sheep	Packet Seeds—Select 94 Packets, seed 199
Hammer Mills 19	Markers, plant	Paints, greenhouse
Hangers, rope	Massachusetts Seed Law 124	Paper, catalog
Herb Seed, germination table 6	Melons at a Glance 156	Paper, wrapping 199
Hives, bee	Membership, ASTA 12	Peas at a Glance 155
Hoes 17	Merchandise for Resale 166	Peat Moss 184 Pencils, waterproof 185
Hormones, plant	Mice proof seed cases 198 Michigan Seed Dealers' Ass'n,	Pennsylvania Seed Law 145
Hormone Sprays	officers 10	Peppers at a Glance
Horticultural Advertising 19 Horticultural Books 17	Michigan Seed Law 125	Perennials 94
Horticultural Color Chart 19	Mineral content in Vegetables 32	Perforated Metal for Screens 199
Horticultural Printing 19	Minnesota Seed Dealers' Ass'n, officers	Pet Supplies 185 Pets 185
Hose, garden	Minnesota Seed Law 128	Photographs, catalog
Hose Holders	Miscellaneous Items 00	Pickers, bean 199
Hotkaps	Wississippi Seed Law 126	Plant Food, liquid 182
Houses, bird	Mississippi Seedsmen's Ass'n,	Plant Foods
Hullers 19		Plant Foods and Fertilizers 175 Plant Markers 183
Humus	Missouri Seedsmen's Ass'n, officers 10	Plant Stimulants 186
	Mixers, molasses 198	Plant Vitamins 186
	Mixers, seed or feed 183	Planters 185
Idaho Seed Law 11	Moss peat	Planting Chart, vegetable 100 Planting instructions, field crops. 86
Illinois Seed Dealers' Ass'n,	Moss, peat	Plants, flower
officers 1	WW . A WESSE	Plants, how to spray 161
Illinois Seed Law 11	Mowers, lawn 184	Plants, vegetable 95
Imports of Agricultural Seeds 20		Plows 186
Incubators		Pole Pruners
Indiana Wholesale Seed Dealers'	Masin John Spawii	Popcorn 95
Ass'n, officers	N	Portable Mills 199
Inert Matter, tolerance tables64-7		Posters 186
Inoculants		
Insect Bait		Pot Saucers
Insect Control	00	
Insecticides, animal 18	Nebraska Seed Law 132	Pots, transplanting 186
Insecticides, household 18	Nevada Seed Law	Pottery 186
Insecticides, plant		Poultry Litter
Insecticides, spraying table 16 Insects, how to spray 16		
Inventory Warehousing 19		Power Lawn Mowers
Iowa Seed Dealers' Ass'n, officers	New Jersey Seed Law	Power Sprayers 186
Iowa Seed Law 12		
	NT	
Irrigation Systems		Prices of Imported Vegetable Seed



Printers, catalog 19	99	Shaking Shoes 201	Tree Markers 192
Protective Foods	32	Shears, grass	Tree Paint 192
Protectors, lawn 18		Sheep Manure	Tree Protection 192
Protectors, plant 18		Sheeting and Burlap for Shade 201	Tree Pruning Compound 192
Pruners 18	86	Shellers, corn	Tree Seeds 98
Pumps, hand & power 18	86	Shredders, soil	Trellis
Pump Jacks 18	86	Sickles	Triers, bag or car
Putty 18	86	Sieve Drives	Tri-States Seedsmen's Ass'n,
Pyrethrum 18	86	Slogans and Trade Marks 213	officers
- 3.00	00	Snail and Slug Bait 189	Trimmers, hedge
R		Sodium Fluoride 189	Trimmers, lawn
			Trowels
Radishes at a Glance 15	58	Soil Conditioners	Trucks, warehouse
Raffia 18	87		
Rakes	87	Soil Inoculants	Tubs, tree and plant
Rape, bird 16	66	Soil Testing Solutions 189	Twine, bag closing
Red Clover Exports by Countries 20	09	Sorters, beet seed	Twine, binder & wrapping 202
Red Clover Seed Imports 20	06	Sorters, corn 201	Twist-Ems 193
Reed Mats 18	87	South Carolina Seed Law 146	Tying Machines 202
Reels, garden line 18	87	South Carolina Seedsmen's Ass'n,	
Reels, hose 18	87	officers 10	U
Remedies, pet	37	South Dakota Seed Dealers' Ass'n,	USDA, directory of 104
Remedies, poultry 18	37	officers 10	Utah Seed Law
Remedies, stock	37	South Dakota Seed Law 147	Otali beed Baw
Repellents, crow	28	Southern Seedsmen's Ass'n,	V
Repellents, dogs, e.c. 18	00	officers 10	
Repellents, insect	00	Spades 190	Vases, cemetery 193
Repellents rodont	00	Spanish Names of Vegetables 60	Vegetable Planting Chart 100
Repellents, rodent	00	Sphagnum Moss	Vegetable Roots 98
Resale Merchandise	00	Spiker and Tamper 190	Vegetable Seed Germination
Rhode Island Seed Law 14	16	Spray Guns	Standards
Rice, wild	98		Vegetable Seed, germination table 62
Rock Phosphate 18	38	Sprayer Nozzles 190	Vegetable Seed, germination table 02
Rollers, lawn 18	38	Sprayers 190	Vegetable Seed, growers 50
Root Forming Hormones 18	88	Spraying Information & Table 161	Vegetable Seed Import Prices 210
Rose Bushes o	16	Spreaders, fertilizer 190	Vegetable Seed, wholesalers 54
Rotenone	88	Sprinklers, lawn 190	Vegetables, All-America Selec-
Rubber Stamps and Ink 19	00	Stakes 166	tions 18
Ryegrass Seed Imports 20		Stakes, plant 190	Vegetables at a Glance 155
20	, 5	State Seed Laws 106	Vegetables, food values 32
S		Sterilizers, soil	Vegetables, foreign names of 60
		Store Fixtures 201	Verification, seed 104
Salamanders 18	8	Sugar Beet Imports by Countries 209	Vermont Seed Law 150
Salsify—Japanese 9	6	Sulphur 190	Vetch, common, Seed Imports 206
Sample Pans 200	0	Sulphur Dust	Vitamin B ₁ 193
Sash, hotbed	8	Sun Dials	Vitamins, food value of 32
Scale Covers, canvas	0	Supplies and Fauinment 104	
Scale Covers, canvas	0	Supplies and Equipment 194	Virginia Seed Law 150
Scale Covers, canvas	0	Supplies and Equipment	
Scale Covers, canvas	0	Supplies and Equipment 194	Virginia Seed Law
Scale Covers, canvas 200 Scales, automatic 200 Scales, counter and platform 200 Scales, egg	0 0 8	Supplies and Equipment	Virginia Seed Law 150
Scale Covers, canvas 200 Scales, automatic 200 Scales, counter and platform 200 Scales, egg 188 Scales, laboratory 200	0 0 0 8 0	Supplies and Equipment	Virginia Seed Law
Scale Covers, canvas 200 Scales, automatic 200 Scales, counter and platform 200 Scales, egg 180 Scales, laboratory 200 Scarifiers 200	0 0 8 0	Supplies and Equipment 194 Supplies, hotbed 191 Supports, plant 191	Virginia Seed Law
Scale Covers, canvas 200 Scales, automatic 200 Scales, counter and platform 200 Scales, egg 180 Scales, laboratory 200 Scarifiers 200 Screens 200	0 0 0 8 0 0 0 0 0	Supplies and Equipment 194 Supplies, hotbed 191 Supports, plant 191 T Tables, bean hand picking 201	Virginia Seed Law
Scale Covers, canvas 20 Scales, automatic 20 Scales, counter and platform 20 Scales, egg 18 Scales, laboratory 20 Scarifiers 20 Screens 20 Scoops 20	0 0 8 0 0 0 0 0	Supplies and Equipment 194 Supplies, hotbed 191 Supports, plant 191 T Tables, bean hand picking 201 Tags, plant and tree 191	Virginia Seed Law
Scale Covers, canvas 20 Scales, automatic 20 Scales, counter and platform 20 Scales, egg 18 Scales, laboratory 20 Scarifiers 20 Screens 20 Scoops 20 Scrapers, roost and floor 18	0 0 0 8 0 0 0 0	Supplies and Equipment 194 Supplies, hotbed 191 Supports, plant 191 T Tables, bean hand picking 201 Tags, plant and tree 191 Tags, shipping 201	Virginia Seed Law
Scale Covers, canvas 20 Scales, automatic 20 Scales, counter and platform 20 Scales, egg 18 Scales, laboratory 20 Scarifiers 20 Screens 20 Scoops 20 Scrapers, roost and floor 18 Screw Hooks (lag thread) 18	0 0 8 0 0 0 0 8 8	Supplies and Equipment 194 Supplies, hotbed 191 Supports, plant 191 T Tables, bean hand picking 201 Tags, plant and tree 191 Tags, shipping 201 Tape, nursery 191	Virginia Seed Law
Scale Covers, canvas 20 Scales, automatic 20 Scales, counter and platform 20 Scales, egg 18 Scales, laboratory 20 Scarifiers 20 Screens 20 Scoops 20 Scrapers, roost and floor 18 Screw Hooks (lag thread) 18 Seals 20	0 0 0 0 0 0 0 0 0 8 8 0 0	Supplies and Equipment 194 Supplies, hotbed 191 Supports, plant 191 T Tables, bean hand picking 201 Tags, plant and tree 191 Tags, shipping 201 Tape, nursery 191 Tapes, typing 191	Virginia Seed Law
Scale Covers, canvas 20 Scales, automatic 20 Scales, counter and platform 20 Scales, egg 18 Scales, laboratory 20 Scarifiers 20 Screens 20 Scoops 20 Scrapers, roost and floor 18 Screw Hooks (lag thread) 18 Seals 20 Sedgepeat 18	0 0 8 0 0 0 0 0 8 8 0 0 8 8	Supplies and Equipment 194 Supplies, hotbed 191 Supports, plant 191 T T Tables, bean hand picking 201 Tags, plant and tree 191 Tags, shipping 201 Tape, nursery 191 Tapes, typing 191 Tarpaulins 201	Virginia Seed Law
Scale Covers, canvas 20 Scales, automatic 20 Scales, counter and platform 20 Scales, egg 18 Scales, laboratory 20 Scarifiers 20 Screens 20 Scoops 20 Scrapers, roost and floor 18 Screw Hooks (lag thread) 18 Seals 20 Sedgepeat 18 Seed and Bulb Stimulant 18	0 0 0 0 0 0 0 0 8 8 0 8 8	Supplies and Equipment 194 Supplies, hotbed 191 Supports, plant 191 T T Tables, bean hand picking 201 Tags, plant and tree 191 Tags, shipping 201 Tape, nursery 191 Tapes, typing 191 Tarpaulins 201 Tennessee Seed Dealers' Ass'n,	Virginia Seed Law
Scale Covers, canvas 20 Scales, automatic 20 Scales, counter and platform 20 Scales, egg 18 Scales, laboratory 20 Scarifiers 20 Screens 20 Scroops 20 Scrapers, roost and floor 18 Screw Hooks (lag thread) 18 Seals 20 Sedgepeat 18 Seed and Bulb Stimulant 18 Seed Associations 10 15	0 0 0 8 0 0 0 0 8 8 8 0 8 8 8 8 8	Supplies and Equipment 194 Supplies, hotbed 191 Supports, plant 191 T T Tables, bean hand picking 201 Tags, plant and tree 191 Tags, shipping 201 Tape, nursery 191 Tapes, typing 191 Tarpaulins 201 Tennessee Seed Dealers' Ass'n, officers 10	Virginia Seed Law 150 Virginia Seedsmen's Ass'n, officers 10 W Warehousing, field 202 Washers, vegetable, root 193 Washington Seed Law 151 Water Culture 193 Water Culture Testing 193 Water Plants 98 Water Systems 193 Waterer and Fertilizer, root 193 Watering cans 168
Scale Covers, canvas 20 Scales, automatic 20 Scales, counter and platform 20 Scales, egg 18 Scales, laboratory 20 Scarifiers 20 Screens 20 Scoops 20 Scrapers, roost and floor 18 Screw Hooks (lag thread) 18 Seals 20 Sedgepeat 18 Seed and Bulb Stimulant 18 Seed Associations 10, 11 Seed Bins 20	0 0 0 8 0 0 0 0 0 8 8 0 0 8 8 0 8 8 0 8 8 8 8 8 8 8 8 8 8 8 8 9 8 8 8 8	Supplies and Equipment 194 Supplies, hotbed 191 Supports, plant 191 T Tables, bean hand picking 201 Tags, plant and tree 191 Tags, shipping 201 Tape, nursery 191 Tapes, typing 191 Tarpaulins 201 Tennessee Seed Dealers' Ass'n, officers 10 Tennessee Seed Law 148	Virginia Seed Law 150 Virginia Seedsmen's Ass'n, officers 10 W Warehousing, field 202 Washers, vegetable, root 193 Washington Seed Law 151 Water Culture 193 Water Culture Testing 193 Water Plants 98 Water Systems 193 Waterer and Fertilizer, root 193 Watering cans 168 Watermelons at a Glance 158
Scale Covers, canvas 20 Scales, automatic 20 Scales, counter and platform 20 Scales, egg 18 Scales, laboratory 20 Scarifiers 20 Screens 20 Scoops 20 Scrapers, roost and floor 18 Scraew Hooks (lag thread) 18 Seals 20 Sedgepeat 18 Seed and Bulb Stimulant 18 Seed Associations 10, 12 Seed Bins 20 Seed Cases 20	0 0 0 0 0 8 0 0 0 0 0 8 8 0 0 0 0 0 0 0	Supplies and Equipment 194 Supplies, hotbed 191 Supports, plant 191 T Tables, bean hand picking 201 Tags, plant and tree 191 Tags, shipping 201 Tape, nursery 191 Tapes, typing 191 Tarpaulins 201 Tennessee Seed Dealers' Ass'n, officers 10 Tennessee Seed Law 148 Termite Chemicals 191	Virginia Seed Law 150 Virginia Seedsmen's Ass'n, officers 10 W Warehousing, field 202 Washers, vegetable, root 193 Washington Seed Law 151 Water Culture 193 Water Culture Testing 193 Water Plants 98 Water Systems 193 Waterer and Fertilizer, root 193 Watering cans 168 Watermelons at a Glance 158 Wax, grafting 193
Scale Covers, canvas 20 Scales, automatic 20 Scales, counter and platform 20 Scales, egg 18 Scales, laboratory 20 Scarifiers 20 Screens 20 Scoops 20 Scrapers, roost and floor 18 Screw Hooks (lag thread) 18 Seals 20 Sedgepeat 18 Seed and Bulb Stimulant 18 Seed Associations 10, 12 Seed Bins 20 Seed Cases 20 Seed Corn 66	0000880008880088820006	Supplies and Equipment 194 Supplies, hotbed 191 Supports, plant 191 T Tables, bean hand picking 201 Tags, plant and tree 191 Tags, shipping 201 Tape, nursery 191 Tapes, typing 191 Tarpaulins 201 Tennessee Seed Dealers' Ass'n, officers 10 Tennessee Seed Law 148 Termite Chemicals 191 Testers, seed corn 201	Virginia Seed Law 150 Virginia Seedsmen's Ass'n, officers 10 W Warehousing, field 202 Washers, vegetable, root 193 Washington Seed Law 151 Water Culture 193 Water Culture Testing 193 Water Plants 98 Water Systems 193 Watering cans 168 Watermelons at a Glance 158 Wax, grafting 193 Weed Burners 168
Scale Covers, canvas 20 Scales, automatic 20 Scales, counter and platform 20 Scales, egg 18 Scales, laboratory 20 Scarifiers 20 Screens 20 Scoops 20 Scrapers, roost and floor 18 Screw Hooks (lag thread) 18 Seals 20 Sedgepeat 18 Seed and Bulb Stimulant 18 Seed Associations 10, 12 Seed Bins 20 Seed Coses 20 Seed Corn 9 Seed Corn Graders, rotary 200	0000880000888008882000660	Supplies and Equipment 194 Supplies, hotbed 191 Supports, plant 191 T Tables, bean hand picking 201 Tags, plant and tree 191 Tags, shipping 201 Tape, nursery 191 Tapes, typing 191 Tarpaulins 201 Tennessee Seed Dealers' Ass'n, officers 10 Tennessee Seed Law 148 Termite Chemicals 191 Testers, seed corn 201 Testers, soil 191	Virginia Seed Law 150 Virginia Seedsmen's Ass'n, officers 10 W Warehousing, field 202 Washers, vegetable, root 193 Washington Seed Law 151 Water Culture 193 Water Culture Testing 193 Water Plants 98 Water Systems 193 Watering cans 168 Watermelons at a Glance 158 Wax, grafting 193 Weed Burners 168 Weed Cutters 193
Scale Covers, canvas 20 Scales, automatic 20 Scales, counter and platform 20 Scales, egg 18 Scales, laboratory 20 Scarifiers 20 Screens 20 Scroops 20 Scrapers, roost and floor 18 Screw Hooks (lag thread) 18 Seals 20 Sedgepeat 18 Seed and Bulb Stimulant 18 Seed Associations 10, 12 Seed Cases 20 Seed Cases 20 Seed Corn 96 Seed Corn Graders, rotary 20 Seed Dockage 100	0000880000088800888200066004	Supplies and Equipment 194 Supplies, hotbed 191 Supports, plant 191 T Tables, bean hand picking 201 Tags, plant and tree 191 Tags, shipping 201 Tape, nursery 191 Tapes, typing 191 Tarpaulins 201 Tennessee Seed Dealers' Ass'n, officers 10 Tennessee Seed Law 148 Termite Chemicals 191	Virginia Seed Law 150 Virginia Seedsmen's Ass'n, officers 10 W Warehousing, field 202 Washers, vegetable, root 193 Washington Seed Law 151 Water Culture 193 Water Culture Testing 193 Water Plants 98 Water Systems 193 Waterer and Fertilizer, root 193 Watering cans 168 Watermelons at a Glance 158 Wax, grafting 193 Weed Burners 168 Weed Cutters 193 Weed Destroyers 193
Scale Covers, canvas 20 Scales, automatic 20 Scales, counter and platform 20 Scales, egg 18 Scales, laboratory 20 Scarifiers 20 Screens 20 Scoops 20 Scrapers, roost and floor 18 Screw Hooks (lag thread) 18 Seals 20 Sedgepeat 18 Seed and Bulb Stimulant 18 Seed Associations 10, 12 Seed Bins 20 Seed Corn 96 Seed Corn Graders, rotary 20 Seed Dockage 104 Seed Extractors, spiral 200	00 00 00 80 00 00 00 88 00 00 00 88 00 00	Supplies and Equipment 194 Supplies, hotbed 191 Supports, plant 191 T Tables, bean hand picking 201 Tags, plant and tree 191 Tags, shipping 201 Tape, nursery 191 Tapes, typing 191 Tarpaulins 201 Tennessee Seed Dealers' Ass'n, officers 10 Tennessee Seed Law 148 Termite Chemicals 191 Testers, seed corn 201 Testers, soil 191 Texas Seed Law 148 Texas Seed Law 148 Texas Seedsmen's Ass'n, officers 10	Virginia Seed Law 150 Virginia Seedsmen's Ass'n, officers 10 W Warehousing, field 202 Washers, vegetable, root 193 Washington Seed Law 151 Water Culture 193 Water Culture Testing 193 Water Plants 98 Water Systems 193 Waterer and Fertilizer, root 193 Watering cans 168 Watermelons at a Glance 158 Wax, grafting 193 Weed Burners 168 Weed Cutters 193 Weed Destroyers 193 Weed Seed, tolerance tables 64-70
Scale Covers, canvas 20 Scales, automatic 20 Scales, counter and platform 20 Scales, egg 18 Scales, laboratory 20 Scarifiers 20 Screens 20 Scoops 20 Scrapers, roost and floor 18 Scrapers, roost and floor 18 Seals 20 Sedgepeat 18 Seed and Bulb Stimulant 18 Seed Associations 10, 12 Seed Cases 20 Seed Corn 96 Seed Corn 96 Seed Corn Graders, rotary 20 Seed Dockage 10 Seed Extractors, spiral 20 Seed Germination Table 66	00008800008880088820006604403	Supplies and Equipment 194 Supplies, hotbed 191 Supports, plant 191 T Tables, bean hand picking 201 Tags, plant and tree 191 Tags, shipping 201 Tape, nursery 191 Tapes, typing 191 Tarpaulins 201 Tennessee Seed Dealers' Ass'n, officers 10 Tennessee Seed Law 148 Termite Chemicals 191 Testers, seed corn 201 Testers, soil 191 Texas Seed Law 148 Texas Seed Law 148 Texas Seedsmen's Ass'n, officers 10	Virginia Seed Law 150 Virginia Seedsmen's Ass'n, officers 10 W Warehousing, field 202 Washers, vegetable, root 193 Washington Seed Law 151 Water Culture 193 Water Culture Testing 193 Water Plants 98 Water Systems 193 Watering can Affectilizer, root 193 Watering cans 168 Watermelons at a Glance 158 Wax, grafting 193 Weed Burners 168 Weed Cutters 193 Weed Destroyers 193 Weed Seed, tolerance tables 64-70 Weeders 194
Scale Covers, canvas 20 Scales, automatic 20 Scales, counter and platform 20 Scales, egg 18 Scales, laboratory 20 Scarifiers 20 Screens 20 Scroops 20 Scrapers, roost and floor 18 Scrapers, roost and floor 18 Seals 20 Sedgepeat 18 Seed and Bulb Stimulant 18 Seed Associations 10, 12 Seed Bins 20 Seed Cases 20 Seed Corn 96 Seed Corn Graders, rotary 20 Seed Extractors, spiral 20 Seed Extractors, spiral 20 Seed, growers of flower 20	0000880000888008882000660044002	Supplies and Equipment 194 Supplies, hotbed 191 Supports, plant 191 T Tables, bean hand picking 201 Tags, plant and tree 191 Tags, shipping 201 Tape, nursery 191 Tapes, typing 191 Tennessee Seed Dealers' Ass'n, officers 10 Tennessee Seed Law 148 Termite Chemicals 191 Testers, seed corn 201 Testers, seed Law 148 Texas Seed Law 148 Texas Seed Law 148 Texas Seed Seed Law 10 Thermometers 191	Virginia Seed Law 150 Virginia Seedsmen's Ass'n, officers 10 W Warehousing, field 202 Washers, vegetable, root 193 Water Culture 193 Water Culture Testing 193 Water Plants 98 Water Systems 193 Watering cans 168 Watering cans 168 Wax, grafting 193 Weed Burners 168 Weed Cutters 193 Weed Destroyers 193 Weed Seed, tolerance tables 64-70 Weeders 194 Weevil Bait 166
Scale Covers, canvas Scales, automatic Scales, counter and platform Scales, egg Scales, laboratory Scarifiers Scareens Screens Screens Scrapers, roost and floor Scrapers, roost and floor Scrapers, roost and floor Screw Hooks (lag thread) Seals Seed and Bulb Stimulant Seed Associations Seed Associations Seed Cases Seed Corn Seed Corn Seed Corn Seed Corn Seed Corn Seed Extractors, spiral Seed Red Fowers of flower Seed, growers of flower Seed, growers of yegetable	00008800000888088200066044002880	Supplies and Equipment 194 Supplies, hotbed 191 Supports, plant 191 T Tables, bean hand picking 201 Tags, plant and tree 191 Tags, shipping 201 Tape, nursery 191 Tapes, typing 191 Tarpaulins 201 Tennessee Seed Dealers' Ass'n, officers 10 Tennessee Seed Law 148 Termite Chemicals 191 Testers, seed corn 201 Testers, seed Law 148 Texas Seed Law 148 Texas Seed Law 148 Texas Seed Law 191 Thermometers 10 Thermostats and Wafers 201	Virginia Seed Law 150 Virginia Seedsmen's Ass'n, officers 10 W Warehousing, field 202 Washers, vegetable, root 193 Washington Seed Law 151 Water Culture 193 Water Culture Testing 193 Water Plants 98 Water Systems 193 Watering cans 168 Watermelons at a Glance 158 Wax, grafting 193 Weed Burners 168 Weed Cutters 193 Weed Destroyers 193 Weed Seed, tolerance tables 64-70 Weeders 194 Weevil Bait 166 Weevil Killer 202
Scale Covers, canvas 20 Scales, automatic 20 Scales, counter and platform 20 Scales, egg 18 Scales, laboratory 20 Scarifiers 20 Screens 20 Scroops 20 Scrapers, roost and floor 18 Screw Hooks (lag thread) 18 Seals 20 Sedgepeat 18 Seed and Bulb Stimulant 18 Seed Associations 10, 12 Seed Cases 20 Seed Corn 96 Seed Corn Graders, rotary 20 Seed Dockage 10 Seed Extractors, spiral 20 Seed Germination Table 62 Seed, growers of flower 85 Seed, growers of vegetable 56 Seed Imports, agricultural seeds 200	00 00 00 80 00 00 00 88 00 00 00 88 80 00 0	Supplies and Equipment 194 Supplies, hotbed 191 Supports, plant 191 T Tables, bean hand picking 201 Tags, plant and tree 191 Tags, shipping 201 Tape, nursery 191 Tapes, typing 191 Tarpaulins 201 Tennessee Seed Dealers' Ass'n, officers 10 Tennessee Seed Law 148 Termite Chemicals 191 Testers, seed corn 201 Texas Seed Law 148 Texas Seed Law 148 Texas Seed Law 148 Texas Seed Law 191 Thermometers 191 Thermostats and Wafers 201 Threshers, seed 201	Virginia Seed Law 150 Virginia Seedsmen's Ass'n, officers 10 W Warehousing, field 202 Washers, vegetable, root 193 Washington Seed Law 151 Water Culture 193 Water Culture Testing 193 Water Plants 98 Water Systems 193 Watering cans 168 Watering cans 168 Watermelons at a Glance 158 Wax, grafting 193 Weed Burners 168 Weed Cutters 193 Weed Destroyers 193 Weed Seed, tolerance tables 64-70 Weeders 194 Weevil Bait 166 Weevil Killer 202 Weights, test 202
Scale Covers, canvas 20 Scales, automatic 20 Scales, counter and platform 20 Scales, egg 18 Scales, laboratory 20 Scarifiers 20 Screens 20 Scroops 20 Scroops 20 Scrapers, roost and floor 18 Screw Hooks (lag thread) 18 Seals 20 Sedgepeat 18 Seed and Bulb Stimulant 18 Seed Associations 10, 12 Seed Bins 20 Seed Corn 96 Seed Corn Graders, rotary 20 Seed Dockage 10 Seed Extractors, spiral 20 Seed Germination Table 62 Seed, growers of flower 88 Seed, growers of vegetable 50 Seed Laws, state 106	000088000088808882000600440022880336	Supplies and Equipment 194 Supplies, hotbed 191 Supports, plant 191 T Tables, bean hand picking 201 Tags, plant and tree 191 Tags, shipping 201 Tape, nursery 191 Tapes, typing 191 Tarpaulins 201 Tennessee Seed Dealers' Ass'n, officers 10 Tennessee Seed Law 148 Termite Chemicals 191 Testers, seed corn 201 Testers, soil 191 Texas Seed Law 148 Texas Seed Law 148 Texas Seed Law 148 Texas Seed Law 191 Thermometers 10 Thermostats and Wafers 201 Threshers, seed 201 Ties, plant 191	Virginia Seed Law 150 Virginia Seedsmen's Ass'n, officers 10 W Warehousing, field 202 Washers, vegetable, root 193 Washington Seed Law 151 Water Culture 193 Water Culture Testing 193 Water Plants 98 Water Systems 193 Waterer and Fertilizer, root 193 Watering cans 168 Watermelons at a Glance 158 Wax, grafting 193 Weed Burners 168 Weed Cutters 193 Weed Destroyers 193 Weed Seed, tolerance tables 64-70 Weeders 194 Weevil Bait 166 Weevil Killer 202 Weights, test 202 West Virginia Seed Law 151
Scale Covers, canvas 20 Scales, automatic 20 Scales, counter and platform 20 Scales, egg 18 Scales, laboratory 20 Scarifiers 20 Screens 20 Scroops 20 Scroops 20 Scrapers, roost and floor 18 Scals 20 Scradgepeat 18 Seed and Bulb Stimulant 18 Seed Associations 10, 12 Seed Bins 20 Seed Corn 96 Seed Corn Graders, rotary 20 Seed Dockage 10 Seed Extractors, spiral 20 Seed Germination Table 62 Seed, growers of flower 88 Seed, growers of vegetable 50 Seed Laws, state 10 Seed Measuring Cups 200	00008800008880888200060440	Supplies and Equipment 194 Supplies, hotbed 191 Supports, plant 191 T Tables, bean hand picking 201 Tags, plant and tree 191 Tags, shipping 201 Tape, nursery 191 Tapes, typing 191 Tarpaulins 201 Tennessee Seed Dealers' Ass'n, officers 10 Tennessee Seed Law 148 Termite Chemicals 191 Testers, seed corn 201 Testers, seed Law 148 Texas Seed Law 148 Texas Seed Law 148 Texas Seed Seed Law 191 Thermometers 10 Thermostats and Wafers 201 Threshers, seed 201 Ties, plant 191 Tillers 202	Virginia Seed Law 150 Virginia Seedsmen's Ass'n, officers 10 W Warehousing, field 202 Washers, vegetable, root 193 Washington Seed Law 151 Water Culture 193 Water Plants 98 Water Plants 98 Water Systems 193 Waterer and Fertilizer, root 193 Watering cans 168 Watermelons at a Glance 158 Wax, grafting 193 Weed Burners 168 Weed Cutters 193 Weed Destroyers 193 Weed Seed, tolerance tables 64-70 Weeders 194 Weevil Bait 166 Weevil Killer 202 Weights, test 202 Western Seedsmen's Ass'n, officers 10
Scale Covers, canvas 20 Scales, automatic 20 Scales, counter and platform 20 Scales, egg 18 Scales, laboratory 20 Scarifiers 20 Screens 20 Scoops 20 Scroops 20 Scrapers, roost and floor 18 Scals 20 Scals 20 Sedgepeat 18 Seed and Bulb Stimulant 18 Seed Associations 10, 12 Seed Cases 20 Seed Corn 96 Seed Corn 96 Seed Corn 96 Seed Extractors, spiral 20 Seed Dockage 10 Seed Germination Table 62 Seed, growers of flower 88 Seed, growers of vegetable 50 Seed Imports, agricultural seeds 203 Seed Laws, state 10 Seed Packets, kraft 200	000080000088008800880040028800	Supplies and Equipment 194 Supplies, hotbed 191 Supports, plant 191 T Tables, bean hand picking 201 Tags, plant and tree 191 Tags, shipping 201 Tape, nursery 191 Tapes, typing 191 Tarpaulins 201 Tennessee Seed Dealers' Ass'n, officers 10 Tennessee Seed Law 148 Termite Chemicals 191 Testers, seed corn 201 Testers, seed Law 148 Texas Seed Law 148 Texas Seed Law 148 Texas Seed seed Law 191 Thermometers 191 Thermostats and Wafers 201 Threshers, seed 201 Tiles, plant 191 Tillers 202 Fimothy, exports 85	Virginia Seed Law 150 Virginia Seedsmen's Ass'n, officers 10 W Warehousing, field 202 Washers, vegetable, root 193 Washington Seed Law 151 Water Culture 193 Water Culture Testing 193 Water Plants 98 Water Systems 193 Watering can 168 Watering cans 168 Watermelons at a Glance 158 Wax, grafting 193 Weed Destroyers 193 Weed Cutters 193 Weed Seed, tolerance tables 64-70 Weeders 194 Weevil Bait 166 Weevil Killer 202 Weights, test 202 West Virginia Seed Law 151 Wheelbarrows 194
Scale Covers, canvas 20 Scales, automatic 20 Scales, counter and platform 20 Scales, egg 18 Scales, laboratory 20 Scarifiers 20 Screens 20 Scoops 20 Scroops 20 Scrapers, roost and floor 18 Scals 20 Scals 20 Sedgepeat 18 Seed and Bulb Stimulant 18 Seed Associations 10, 12 Seed Cases 20 Seed Corn 96 Seed Corn 96 Seed Corn 96 Seed Extractors, spiral 20 Seed Dockage 10 Seed Germination Table 62 Seed, growers of flower 88 Seed, growers of vegetable 50 Seed Imports, agricultural seeds 203 Seed Laws, state 10 Seed Packets, kraft 200	000080000088808820006604400	Supplies and Equipment 194 Supplies, hotbed 191 Supports, plant 191 T Tables, bean hand picking 201 Tags, plant and tree 191 Tags, shipping 201 Tape, nursery 191 Tapes, typing 191 Tarpaulins 201 Tennessee Seed Dealers' Ass'n, officers 10 Tennessee Seed Law 148 Termite Chemicals 191 Testers, seed corn 201 Testers, seed Law 148 Texas Seed Law 148 Texas Seed Law 148 Texas Seedsmen's Ass'n, officers 10 Phermometers 191 Thershers, seed 201 Threshers, seed 201 Ties, plant 191 Tillers 202 Fimothy, exports 85 Timothy, Exports by Countries 209	Virginia Seed Law 150 Virginia Seedsmen's Ass'n, officers 10 W Warehousing, field 202 Washers, vegetable, root 193 Washington Seed Law 151 Water Culture 193 Water Culture Testing 193 Water Plants 98 Water Systems 193 Watering can 168 Watering cans 168 Watermelons at a Glance 158 Wax, grafting 193 Weed Destroyers 193 Weed Cutters 193 Weed Seed, tolerance tables 64-70 Weeders 194 Weevil Bait 166 Weevil Killer 202 Weights, test 202 West Virginia Seed Law 151 Wheelbarrows 194
Scale Covers, canvas 20 Scales, automatic 20 Scales, counter and platform 20 Scales, egg 18 Scales, laboratory 20 Scarifiers 20 Screens 20 Scroops 20 Scrapers, roost and floor 18 Screw Hooks (lag thread) 18 Seals 20 Sedgepeat 18 Seed and Bulb Stimulant 18 Seed Associations 10, 12 Seed Cases 20 Seed Corn 96 Seed Corn 96 Seed Corn Graders, rotary 20 Seed Extractors, spiral 200 Seed Germination Table 62 Seed, growers of flower 88 Seed, growers of vegetable 50 Seed Laws, state 106 Seed Measuring Cups 200 Seed Separators 200 Seed Separators 200 Seed Sieves 200	000080000088808820006040288033600000	Supplies and Equipment 194 Supplies, hotbed 191 Supports, plant 191 T Tables, bean hand picking 201 Tags, plant and tree 191 Tags, shipping 201 Tape, nursery 191 Tapes, typing 191 Tarpaulins 201 Tennessee Seed Dealers' Ass'n, officers 10 Tennessee Seed Law 148 Termite Chemicals 191 Testers, seed corn 201 Testers, soil 191 Texas Seed Law 148 Ternometers, seed 10 Thermometers 191 Thermostats and Wafers 201 Threshers, seed 201 Ties, plant 191 Tillers 202 Fimothy, exports 85 Fimothy Exports by Countries 209 Fimothy Seed Imports 207	Virginia Seed Law 150 Virginia Seedsmen's Ass'n, officers 10 W Warehousing, field 202 Washers, vegetable, root 193 Washington Seed Law 151 Water Culture 193 Water Culture Testing 193 Water Plants 98 Water Systems 193 Watering cans 168 Watermelons at a Glance 158 Wax, grafting 193 Weed Burners 168 Weed Cutters 193 Weed Destroyers 193 Weed Seed, tolerance tables 64-70 Weevil Bait 166 Weevil Killer 202 Weights, test 202 Western Seedsmen's Ass'n, officers 10 Wheelbarrows 194 White Clover Seed Imports 207
Scale Covers, canvas Scales, automatic Scales, counter and platform Scales, egg Scales, laboratory Scales, laboratory Scarifiers Scoops Scoops Screens Screw Hooks (lag thread) Seals Seed Bins Seed and Bulb Stimulant Seed Associations 10, 12 Seed Corn Seed Fatractors, spiral Seed Fatractors, spiral Seed, growers of flower Seed, growers of flower Seed Laws, state Seed Measuring Cups Seed Packets, kraft Seed Sieves Seed Sieves Seed Storage and Distribution	0000800008880888200060040028803360000000000000000000000000000000	Supplies and Equipment 194 Supplies, hotbed 191 Supports, plant 191 T Tables, bean hand picking 201 Tags, plant and tree 191 Tags, shipping 201 Tape, nursery 191 Tapes, typing 191 Tarpaulins 201 Tennessee Seed Dealers' Ass'n, officers 10 Tennessee Seed Law 148 Termite Chemicals 191 Testers, seed corn 201 Texas Seed Law 148 Texas Seed Law 148 Texas Seed Law 148 Texas Seed Law 191 Thermometers 10 Thermostats and Wafers 201 Threshers, seed 201 Ties, plant 191 Fillers 202 Cimothy, exports 85 Fimothy Exports by Countries 209 Fimothy Seed Imports 207 Fobacco Powder 191	Virginia Seed Law 150 Virginia Seedsmen's Ass'n, officers 10 W Warehousing, field 202 Washers, vegetable, root 193 Washington Seed Law 151 Water Culture 193 Water Culture Testing 193 Water Plants 98 Water Systems 193 Water rand Fertilizer, root 193 Watering cans 168 Watermelons at a Glance 158 Wax, grafting 193 Weed Burners 168 Weed Cutters 193 Weed Destroyers 193 Weed Seed, tolerance tables 64-70 Weeders 194 Weevil Bait 166 Weevil Killer 202 West Virginia Seed Law 151 Western Seedsmen's Ass'n, officers 10 Wheelbarrows 194 Whelebarrows 194 Whelebarrows 207 Wholesale Field Seed 72
Scale Covers, canvas Scales, automatic Scales, counter and platform Scales, egg Scales, laboratory Scales, laboratory Scarifiers Scoops Scoops Screens Screw Hooks (lag thread) Seals Seed Bins Seed and Bulb Stimulant Seed Associations 10, 12 Seed Corn Seed Fatractors, spiral Seed Fatractors, spiral Seed, growers of flower Seed, growers of flower Seed Laws, state Seed Measuring Cups Seed Packets, kraft Seed Sieves Seed Sieves Seed Storage and Distribution	000080000880088200060040028800336000000000000000000000000000000	Supplies and Equipment 194 Supplies, hotbed 191 Supports, plant 191 Tables, bean hand picking 201 Tags, plant and tree 191 Tags, shipping 201 Tape, nursery 191 Tapes, typing 191 Tarpaulins 201 Tennessee Seed Dealers' Ass'n, officers 10 Tennessee Seed Law 148 Termite Chemicals 191 Testers, seed corn 201 Testers, seed Law 148 Texas Seed Law 148 Texas Seed Law 148 Texas Seed Seed Law 191 Thermostats and Wafers 201 Threshers, seed 201 Threshers, seed 201 Ties, plant 191 Tilers 202 Timothy, exports 85 Timothy Exports by Countries 209 Timothy Seed Imports 207 Tobacco Powder 191 Tobacco Seed 97	Virginia Seed Law 150 Virginia Seedsmen's Ass'n, officers 10 W Warehousing, field 202 Washers, vegetable, root 193 Washington Seed Law 151 Water Culture 193 Water Culture Testing 193 Water Plants 98 Water Systems 193 Watering cans 168 Watering cans 168 Watermelons at a Glance 158 Wax, grafting 193 Weed Burners 168 Weed Cutters 193 Weed Destroyers 193 Weed Seed, tolerance tables 64-70 Weeders 194 Weevil Bait 166 Weevil Killer 202 West Virginia Seed Law 151 Western Seedsmen's Ass'n, officers 10 Whelebarrows 194 White Clover Seed Imports 207 Wholesale Field Seed 72 Wholesale Prices of Field Seed 210
Scale Covers, canvas Scales, automatic Scales, counter and platform Scales, egg Scales, laboratory Scarifiers Scales, laboratory Scarifiers Screens Screens Scroops Scroops Scrapers, roost and floor Screw Hooks (lag thread) Seals Seed and Bulb Stimulant Seed Associations Seed Associations Seed Corn Seed Faxtractors, spiral Seed Germination Table Seed, growers of flower Seed, growers of flower Seed Jimports, agricultural seeds Seed Laws, state Seed Measuring Cups Seed Separators Seed Separators Seed Sieves Seed Storage and Distribution Seed Testing Equipment 200 Seed Testing Equipment	000080000880088200060040028003660000000000000000000000000000000	Supplies and Equipment 194 Supplies, hotbed 191 Supports, plant 191 T Tables, bean hand picking 201 Tags, plant and tree 191 Tags, shipping 201 Tape, nursery 191 Tapes, typing 191 Tarpaulins 201 Tennessee Seed Dealers' Ass'n, officers 10 Tennessee Seed Law 148 Termite Chemicals 191 Testers, soil 191 Texas Seed Law 148 Texas Seed Law 148 Texas Seed Men's Ass'n, officers 10 Thermometers 191 Thershers, seed 201 Threshers, seed 201 Threshers, seed 201 Tillers 202 Timothy, exports 85 Timothy Exports by Countries 209 Timothy Seed Imports 207 Tobacco Powder 191 Tobacco Seed 97 Toleranc	Virginia Seed Law 150 Virginia Seedsmen's Ass'n, officers 10 W Warehousing, field 202 Washers, vegetable, root 193 Washington Seed Law 151 Water Culture 193 Water Plants 98 Water Plants 98 Water Systems 193 Waterer and Fertilizer, root 193 Watering cans 168 Watermelons at a Glance 158 Wax, grafting 193 Weed Burners 168 Weed Cutters 193 Weed Destroyers 193 Weed Seed, tolerance tables 64-70 Weeders 194 Weevil Bait 166 Weevil Killer 202 West Virginia Seed Law 151 Western Seedsmen's Ass'n, officers 10 Wheelbarrows 194 White Clover Seed Imports 207 Wholesale Field Seed 72 Wholesale Prices of Field Seed 54
Scale Covers, canvas Scales, automatic Scales, counter and platform Scales, egg Scales, laboratory Scarifiers Scales, laboratory Scarifiers Screens Scoops Scoops Scoops Scrapers, roost and floor Screw Hooks (lag thread) Seals Seed and Bulb Stimulant Seed and Bulb Stimulant Seed Associations 10, 12 Seed Cases Seed Corn Seed Corn Seed Corn Graders, rotary Seed Dockage Seed Corn Graders, rotary Seed Germination Table Seed, growers of flower Seed, growers of vegetable Seed Imports, agricultural seeds Seed Laws, state Seed Measuring Cups Seed Separators Seed Sieves Seed Storage and Distribution Seed Testing Equipment Seed Testing Equipment Seed Testing Commercial	0000800000888088200060044	Supplies and Equipment 194 Supplies, hotbed 191 Supports, plant 191 T T Tables, bean hand picking 201 Tags, plant and tree 191 Tags, shipping 201 Tape, nursery 191 Tapes, typing 191 Tarpaulins 201 Tennessee Seed Dealers' Ass'n, officers 10 Tennessee Seed Law 148 Termite Chemicals 191 Testers, seed corn 201 Testers, seed Law 148 Texas Seed Law 148 Texas Seed Law 148 Texas Seed seed Law 191 Thermometers 10 Thermometers 10 Thermometers 201 Threshers, seed 201 Tries, plant 191 Tillers 202 Timothy, exports 85 Timothy Exports by Countries 209 Timothy Seed Imports 207	Virginia Seed Law 150 Virginia Seedsmen's Ass'n, officers 10 W Warehousing, field 202 Washers, vegetable, root 193 Washington Seed Law 151 Water Culture 193 Water Culture Testing 193 Water Plants 98 Water Systems 193 Waterer and Fertilizer, root 193 Watering cans 168 Watermelons at a Glance 158 Wax, grafting 193 Weed Burners 168 Weed Destroyers 193 Weed Seed, tolerance tables 64-70 Weeders 194 Weevil Bait 166 Weevil Killer 202 Weights, test 202 West Virginia Seed Law 151 Western Seedsmen's Ass'n, officers 10 Wholesale Field Seed 72 Wholesale Prices of Field Seed 207 Wholesale Prices of Garden Seed 54 Wild Bird Seeds 98
Scale Covers, canvas Scales, automatic Scales, counter and platform Scales, egg Scales, laboratory Scarifiers Scales, laboratory Scarifiers Scoops Scoops Scoops Screens Screew Hooks (lag thread) Seals Seed and Bulb Stimulant Seed Associations Seed Bins Seed Cases Seed Corn Seed Corn Seed Corn Seed Corn Seed Dockage Seed Extractors, spiral Seed Germination Table Seed, growers of flower Seed, growers of flower Seed Imports, agricultural seeds Seed Measuring Cups Seed Measuring Cups Seed Seed Separators Seed Sieves Seed Testing Equipment Seed Testing, commercial Seed Trade Marks and Slogans 2018 2029 203 204 205 206 207 207 208 209 209 209 209 209 209 209	0000800000880088200060040028803360000000000000000000000000000000	Supplies and Equipment 194 Supplies, hotbed 191 Supports, plant 191 T Tables, bean hand picking 201 Tags, plant and tree 191 Tags, shipping 201 Tape, nursery 191 Tapes, typing 191 Tarpaulins 201 Tennessee Seed Dealers' Ass'n, officers 10 Tennessee Seed Law 148 Termite Chemicals 191 Testers, seed corn 201 Testers, seed Law 148 Texas Seed Law 148 Texas Seed Law 148 Texas Seed Law 191 Thermostats and Wafers 201 Thes, plant 191 Tillers 202 Timothy, exports 85 Timothy Exports by Countries 209 Timothy Seed Imports 207 Tobacco Powder 191 Tobacco Seed 97 Tolerance Tables 64-70 Tomatoes	Virginia Seed Law 150 Virginia Seedsmen's Ass'n, officers 10 W Warehousing, field 202 Washers, vegetable, root 193 Washington Seed Law 151 Water Culture 193 Water Plants 98 Water Plants 98 Water Systems 193 Watering can 168 Watering cans 168 Watermelons at a Glance 158 Wax, grafting 193 Weed Burners 168 Weed Cutters 193 Weed Destroyers 193 Weed Seed, tolerance tables 64-70 Weeders 194 Weevil Bait 166 Weevil Killer 202 Weights, test 202 Western Seedsmen's Ass'n, officers 10 Wheelbarrows 194 White Clover Seed Imports 207 Wholesale Field Seed 72 Wholesale Prices of Field Seed 210 Wholesaler of Garden Seed
Scale Covers, canvas Scales, automatic Scales, counter and platform Scales, egg Scales, laboratory Scarifiers Scareens Screens Screens Screens Scrapers, roost and floor Scrapers, roost and floor Screw Hooks (lag thread) Seals Seed and Bulb Stimulant Seed Associations Seed Associations Seed Bins Seed Cases Seed Corn Seed Corn Seed Corn Seed Factors, spiral Seed Extractors, spiral Seed Germination Table Seed, growers of flower Seed, growers of flower Seed Imports, agricultural seeds Seed Laws, state Seed Measuring Cups Seed Seed Separators Seed Sieves Seed Sieves Seed Storage and Distribution Seed Testing Equipment Seed Trade Marks and Slogans 200 201 202 203 204 205 206 207 207 208 209 209 209 209 209 209 209	00008800008880882000604022880336000000332	Supplies and Equipment 194 Supplies, hotbed 191 Supports, plant 191 T Tables, bean hand picking 201 Tags, plant and tree 191 Tags, shipping 201 Tape, nursery 191 Tapes, typing 191 Tarpaulins 201 Tennessee Seed Dealers' Ass'n, officers 10 Tennessee Seed Law 148 Termite Chemicals 191 Testers, seed corn 201 Testers, seed Law 148 Texas Seed Law 148 Texas Seed Law 148 Texas Seed Mare 191 Thermostats and Wafers 201 Threshers, seed 201 Threshers, seed 201 Tiles, plant 191 Fillers 202 Fimothy exports 85 Fimothy Exports by Countries 209 Fimothy Seed Imports 207 Tobacco Powder 191	Virginia Seed Law 150 Virginia Seedsmen's Ass'n, officers 10 W Warehousing, field 202 Washers, vegetable, root 193 Washington Seed Law 151 Water Culture 193 Water Culture Testing 193 Water Plants 98 Water Systems 193 Water and Fertilizer, root 193 Watering cans 168 Watering cans 168 Watermelons at a Glance 158 Wax, grafting 193 Weed Burners 168 Weed Cutters 193 Weed Destroyers 193 Weed Seed, tolerance tables 64-70 Weeders 194 Weevil Bait 166 Weevil Killer 202 Weights, test 202 West Virginia Seed Law 151 Western Seedsmen's Ass'n, officers 10 Whielbarrows 194 Weights, test 207 Wholesale Field Seed
Scale Covers, canvas Scales, automatic Scales, counter and platform Scales, egg Scales, laboratory Scales, laboratory Scales, laboratory Scales, laboratory Scales, laboratory Scarifiers Scoops Scroops Scroops Scrapers, roost and floor Screw Hooks (lag thread) Seals Seed and Bulb Stimulant Seed Associations 10, 12 Seed Bins Seed Cases Seed Corn Seed Corn Graders, rotary Seed Dockage Seed Corn Graders, rotary Seed Germination Table Seed, growers of flower Seed, growers of flower Seed, growers of regetable Seed, growers of regetable Seed Imports, agricultural seeds Seed Laws, state Seed Measuring Cups Seed Packets, kraft Seed Separators Seed Separators Seed Seed Sieves Seed Sieves Seed Testing Equipment Seed Trade Marks and Slogans 200 Seed Trade Marks and Slogans 201 Seed Trade Officers 10, 12 Seed Trade Officers 10, 12 Seed Treater	00008800008880882000604022880336000000320	Supplies and Equipment 194 Supplies, hotbed 191 Supports, plant 191 T Tables, bean hand picking 201 Tags, plant and tree 191 Tags, shipping 201 Tape, nursery 191 Tapes, typing 191 Tarpaulins 201 Tennessee Seed Dealers' Ass'n, officers 10 Tennessee Seed Law 148 Termite Chemicals 191 Testers, seed corn 201 Testers, seed Law 148 Texas Seed Law 148 Texas Seed Law 148 Texas Seed Mare 191 Thermometers 191 Thermostats and Wafers 201 Threshers, seed 201 Ties, plant 191 Fillers 202 Fimothy exports 85 Fimothy Exports by Countries 209 Fimothy Seed Imports 207 Fobacco Powder 191 <td< td=""><td>Virginia Seed Law 150 Virginia Seedsmen's Ass'n, officers 10 W Warehousing, field 202 Washers, vegetable, root 193 Washington Seed Law 151 Water Culture 193 Water Plants 98 Water Plants 98 Water Systems 193 Water and Fertilizer, root 193 Watering cans 168 Watermelons at a Glance 158 Wax, grafting 193 Weed Burners 168 Weed Utters 193 Weed Destroyers 193 Weed Seed, tolerance tables 64-70 Weeders 194 Weevil Bait 166 Weevil Killer 202 West Virginia Seed Law 151 Western Seedsmen's Ass'n, officers 10 White Clover Seed Imports 207 Wholesale Field Seed 72 Wholesale Prices of Field Seed 54 Wild Bird Seeds 98 Wi</td></td<>	Virginia Seed Law 150 Virginia Seedsmen's Ass'n, officers 10 W Warehousing, field 202 Washers, vegetable, root 193 Washington Seed Law 151 Water Culture 193 Water Plants 98 Water Plants 98 Water Systems 193 Water and Fertilizer, root 193 Watering cans 168 Watermelons at a Glance 158 Wax, grafting 193 Weed Burners 168 Weed Utters 193 Weed Destroyers 193 Weed Seed, tolerance tables 64-70 Weeders 194 Weevil Bait 166 Weevil Killer 202 West Virginia Seed Law 151 Western Seedsmen's Ass'n, officers 10 White Clover Seed Imports 207 Wholesale Field Seed 72 Wholesale Prices of Field Seed 54 Wild Bird Seeds 98 Wi
Scale Covers, canvas Scales, automatic Scales, counter and platform Scales, egg Scales, laboratory Scales, laboratory Scarifiers Scales, laboratory Scarifiers Screens Scoops Scroops Scrapers, roost and floor Screw Hooks (lag thread) Seals Seed and Bulb Stimulant Seed Associations 10, 12 Seed Bins Seed Associations 10, 12 Seed Corn Seed Corn Seed Corn Seed Corn Seed Corn Graders, rotary Seed Dockage Seed Extractors, spiral Seed Germination Table Seed, growers of flower Seed, growers of vegetable Seed, growers of vegetable Seed Laws, state Seed Measuring Cups Seed Packets, kraft Seed Separators Seed Separators Seed Separators Seed Trade Marks and Slogans 213 Seed Trade Marks and Slogans 201 Seed Trade Marks and Slogans 202 Seed Trade Marks and Slogans 203 Seed Trade Marks and Slogans 204 Seed Treater Seed Treater Seed Treater Seed Treater Seed Treating Equipment	000080000088808820066040028803660000000000000000000000000000000	Supplies and Equipment 194 Supplies, hotbed 191 Supports, plant 191 Tables, bean hand picking 201 Tags, plant and tree 191 Tags, shipping 201 Tape, nursery 191 Tapes, typing 191 Tarpaulins 201 Tennessee Seed Dealers' Ass'n, officers 10 Tennessee Seed Law 148 Termite Chemicals 191 Testers, seed corn 201 Testers, soil 191 Texas Seed Law 148 Texas Seed Law 148 Texas Seed Was'n, officers 10 Thermometers 191 Phermostats and Wafers 201 Threshers, seed 201 Threshers, seed 201 Tiles, plant 191 Fillers 202 Timothy, exports 85 Timothy Exports by Countries 209 Timothy Seed Imports 207 Tobacco Powder 191	Virginia Seed Law 150 Virginia Seedsmen's Ass'n, officers 10 W Warehousing, field 202 Washers, vegetable, root 193 Washington Seed Law 151 Water Culture 193 Water Plants 98 Water Plants 98 Water Systems 193 Water and Fertilizer, root 193 Watering cans 168 Watermelons at a Glance 158 Wax, grafting 193 Weed Burners 168 Weed Destroyers 193 Weed Destroyers 193 Weed Seed, tolerance tables 64-70 Weeders 194 Weevil Bait 166 Weevil Killer 202 West Virginia Seed Law 151 Western Seedsmen's Ass'n, officers 10 Whelbarrows 194 White Clover Seed Imports 207 Wholesale Field Seed 72 Wholesale Field Seed 98 Wild Bird S
Scale Covers, canvas Scales, automatic Scales, counter and platform Scales, egg Scales, laboratory Scales, laboratory Scarifiers Scales, laboratory Scarifiers Scoops Scroops Scroops Scrapers, roost and floor Screw Hooks (lag thread) Seals Seed and Bulb Stimulant Seed and Bulb Stimulant Seed Associations Seed Bins Seed Bins Seed Corn Seed Corn Seed Corn Graders, rotary Seed Dockage Seed Extractors, spiral Seed Germination Table Seed, growers of flower Seed, growers of flower Seed Laws, state Seed Imports, agricultural seeds Seed Laws, state Seed Measuring Cups Seed Separators Seed Separators Seed Sieves Seed Treater Seed Trade Marks and Slogans 201 Seed Trade Officers 10, 12 Seed Trade Officers 10, 12 Seed Trater Seed Treater Seed Treating Equipment Seed Treater Seed Triers	000080000088008820060040028803660000000000000000000000000000000	Supplies and Equipment 194 Supplies, hotbed 191 Supports, plant 191 T Tables, bean hand picking 201 Tags, plant and tree 191 Tags, shipping 201 Tape, nursery 191 Tapes, typing 191 Tarpaulins 201 Tennessee Seed Dealers' Ass'n, officers 10 Tennessee Seed Law 148 Termite Chemicals 191 Testers, seed corn 201 Testers, seed Law 148 Texas Seed Law 148 Texas Seed Law 148 Texas Seed Men's Ass'n, officers 10 Thermometers 191 Thermostats and Wafers 201 Threshers, seed 201 Tries, plant 191 Tillers 202 Fimothy, exports 85 Timothy Exports by Countries 209 Fimothy Seed Imports 207 Tobacco Powder 191	Virginia Seed Law
Scale Covers, canvas Scales, automatic Scales, counter and platform Scales, egg Scales, laboratory Scarifiers Scales, laboratory Scarifiers Scoops Scoops Scoops Screem Hooks (lag thread) Seals Seed and Bulb Stimulant Seed Associations Seed Bins Seed Bins Seed Corn Seed Corn Seed Corn Seed Corn Seed Corn Seed Dockage 104 Seed Aractors, spiral Seed Germination Table Seed, growers of flower Seed, growers of flower Seed Imports, agricultural seeds Seed Laws, state Seed Measuring Cups Seed Seed Separators Seed Sieves Seed Sieves Seed Testing Equipment Seed Treater	000080000088008820060040028036600000003200000	Supplies and Equipment 194 Supplies, hotbed 191 Supports, plant 191 T Tables, bean hand picking 201 Tags, plant and tree 191 Tags, shipping 201 Tape, nursery 191 Tapes, typing 191 Tarpaulins 201 Tennessee Seed Dealers' Ass'n, officers 10 Tennessee Seed Law 148 Termite Chemicals 191 Testers, seed corn 201 Testers, seed Law 148 Texas Seed Law 148 Texas Seed Law 148 Texas Seed Mafers 201 Thershers, seed 201 Thershers, seed 201 Tries, plant 191 Tillers 202 Timothy, exports 85 Timothy Exports by Countries 209 Timothy Seed Imports 207 Tobacco Powder 191 Tobacco Powder 191	Virginia Seed Law 150 Virginia Seedsmen's Ass'n, officers 10 W Warehousing, field 202 Washers, vegetable, root 193 Washington Seed Law 151 Water Culture 193 Water Culture Testing 193 Water Plants 98 Water Systems 193 Waterer and Fertilizer, root 193 Watering cans 168 Watering cans 168 Wax, grafting 193 Weed Burners 168 Weed Cutters 193 Weed Destroyers 193 Weed Seed, tolerance tables 64-70 Weeders 194 Weevil Bait 166 Weevil Killer 202 Weights, test 202 Weights, test 202 Weights, test 202 Weights, test 202 West Virginia Seed Law 151 Western Seedsmen's Ass'n, officers 10 Wholesale Prices of Field Seed 72
Scale Covers, canvas Scales, automatic Scales, counter and platform Scales, egg Scales, laboratory Scarifiers Scales, laboratory Scarifiers Scoops Scoops Scoops Scoops Screem Hooks (lag thread) Seals Seed and Bulb Stimulant Seed Associations Seed Bins Seed Associations Seed Corn Seed Corn Seed Corn Seed Dockage Seed Dockage Seed Extractors, spiral Seed Agrowers of flower Seed, growers of flower Seed Imports, agricultural seeds Seed Measuring Cups Seed Seed Separators Seed Sieves Seed Sieves Seed Treater Seed Trade Officers 10, 12 Seed Treater Seed Treater Seed Treating Equipment Seed Treating Equipment Seed Treater Seed Treating Equipment Seed Treater Seed Treater Seed Treating Equipment Seed Treating Equipment Seed Treater Seed Treating Equipment Seed Treater Seed Treating Equipment Seed Treating Equipment Seed Treating Equipment Seed Treater Seed Treating Equipment Seed Treating	00008800008880888200660440288033600000320110)+	Supplies and Equipment 194 Supplies, hotbed 191 Supports, plant 191 T Tables, bean hand picking 201 Tags, plant and tree 191 Tags, shipping 201 Tape, nursery 191 Tapes, typing 191 Tarpaulins 201 Tennessee Seed Dealers' Ass'n, officers 10 Tennessee Seed Law 148 Termite Chemicals 191 Testers, seed corn 201 Testers, soil 191 Texas Seed Law 148 Texas Seed Law 148 Texas Seed Mare 10 Thermometers 10 Thermometers 191 Thermostats and Wafers 201 Threshers, seed 201 Ties, plant 191 Tillers 202 Timothy, exports 85 Timothy Exports by Countries 209 Timothy Seed Imports 207 Tobacco Seed	Virginia Seed Law 150 Virginia Seedsmen's Ass'n, officers 10 W Warehousing, field 202 Washers, vegetable, root 193 Washington Seed Law 151 Water Culture 193 Water Culture Testing 193 Water Plants 98 Water Systems 193 Watering cans 168 Watering cans 168 Watering cans 168 Watermelons at a Glance 158 Wax, grafting 193 Weed Burners 168 Weed Cutters 193 Weed Cutters 193 Weed Seed, tolerance tables 64-70 Weeders 194 Weevil Bait 166 Weevil Killer 202 Weights, test 202 West Virginia Seed Law 151 Western Seedsmen's Ass'n, officers 10 Wholesale Field Seed 72 Wholesale Field Seed 72 Wholesale Prices of Field Seed 210 Wholesalers of Garden Seed 54 Wild Bird Seeds 98 Wild Mustard 98 Wild Rice 98 Winter Rape Seed Imports 205 Wisconsin Seed Law 152 Woodruff, Harold F. 10, 12
Scale Covers, canvas Scales, automatic Scales, counter and platform Scales, egg Scales, laboratory Scales, laboratory Scarifiers Scoops Scoops Screens Scoops Scrapers, roost and floor Screw Hooks (lag thread) Seals Seed and Bulb Stimulant Seed Associations 10, 12 Seed Bins Seed Cases Seed Corn Seed Corn Graders, rotary Seed Dockage Seed Corn Graders, rotary Seed Bockage Seed Germination Table Seed, growers of flower Seed, growers of flower Seed, growers of regetable Seed Laws, state Seed Measuring Cups Seed Packets, kraft Seed Separators Seed Sieves Seed Sieves Seed Testing Equipment Seed Trade Marks and Slogans 200 Seed Trade Marks and Slogans 213 Seed Treater Seed Treating Equipment Seed Treater Seed Treating Equipment Seed Treater Seed Treating Equipment Seed Tre	000088000088808882006040288033600000000000000000000000000000000	Supplies and Equipment 194 Supplies, hotbed 191 Supports, plant 191 T Tables, bean hand picking 201 Tags, plant and tree 191 Tags, shipping 201 Tape, nursery 191 Tapes, typing 191 Tarpaulins 201 Tennessee Seed Dealers' Ass'n, officers 10 Tennessee Seed Law 148 Termite Chemicals 191 Testers, seed corn 201 Testers, soil 191 Texas Seed Law 148 Texas Seed May 148 Texas Seed Law 148 Texas Seed Law 191 Thermometers 10 Thermometers 191 Thermostats and Wafers 201 Threshers, seed 201 Tiles, plant 191 Fillers 202 Timothy exports 85 Timothy Exports by Countries 209 Timothy Seed Imports <td>Virginia Seed Law 150 Virginia Seedsmen's Ass'n, officers 10 W Warehousing, field 202 Washers, vegetable, root 193 Washington Seed Law 151 Water Culture 193 Water Plants 98 Water Systems 193 Water Plants 98 Water Systems 193 Water and Fertilizer, root 193 Watering cans 168 Watermelons at a Glance 158 Wax, grafting 193 Weed Burners 168 Weed Cutters 193 Weed Destroyers 193 Weed Seed, tolerance tables 64-70 Weeders 194 Weevil Bait 166 Weevil Bait 166 Weevil Bait 166 Weevil Bait 202 West Virginia Seed Law 151 Western Seedsmen's Ass'n, officers 10 Wholesale Field Seed 72 Wholesale Field Seed <t< td=""></t<></td>	Virginia Seed Law 150 Virginia Seedsmen's Ass'n, officers 10 W Warehousing, field 202 Washers, vegetable, root 193 Washington Seed Law 151 Water Culture 193 Water Plants 98 Water Systems 193 Water Plants 98 Water Systems 193 Water and Fertilizer, root 193 Watering cans 168 Watermelons at a Glance 158 Wax, grafting 193 Weed Burners 168 Weed Cutters 193 Weed Destroyers 193 Weed Seed, tolerance tables 64-70 Weeders 194 Weevil Bait 166 Weevil Bait 166 Weevil Bait 166 Weevil Bait 202 West Virginia Seed Law 151 Western Seedsmen's Ass'n, officers 10 Wholesale Field Seed 72 Wholesale Field Seed <t< td=""></t<>
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Scale Covers, canvas Scales, automatic Scales, counter and platform Scales, egg Scales, laboratory Scarifiers Scales, laboratory Scarifiers Scoops Screens Screens Screw Hooks (lag thread) Scals Seed and Bulb Stimulant Seed Associations Seed Bins Seed Associations Seed Corn Seed Corn Graders, rotary Seed Dockage Seed Extractors, spiral Seed Germination Table Seed, growers of flower Seed, growers of flower Seed Imports, agricultural seeds Seed Measuring Cups Seed Separators Seed Separators Seed Testing Equipment Seed Trade Marks and Slogans 200 Seed Trade Marks and Slogans 213 Seed Trade Officers 10, 12 Seed Trade Officers 10, 12 Seed Treater S	0008000088088200604028036000000032011013	Supplies and Equipment 194 Supplies, hotbed 191 Supports, plant 191 Tables, bean hand picking 201 Tags, plant and tree 191 Tags, shipping 201 Tape, nursery 191 Tapes, typing 191 Tarpaulins 201 Tennessee Seed Dealers' Ass'n, officers 10 Tennessee Seed Law 148 Termite Chemicals 191 Testers, seed corn 201 Testers, seed Law 148 Texas Seed Law 148 Texas Seed Law 148 Texas Seed Maris 201 Thermometers 10 Thermometers 10 Thermometers 191 Theshers, seed 201 Threshers, seed 201 Threshers, seed 202 Timothy, exports 85 Findthy Exports by Countries 209 Timothy Seed Imports 207 Tobacco Seed 97 Foler	Virginia Seed Law 150 Virginia Seedsmen's Ass'n, officers 10 W Warehousing, field 202 Washers, vegetable, root 193 Washington Seed Law 151 Water Culture 193 Water Culture Testing 193 Water Plants 98 Water Systems 193 Watering cans 168 Watering cans 168 Watering cans 168 Watermelons at a Glance 158 Wax, grafting 193 Weed Burners 168 Weed Cutters 193 Weed Destroyers 193 Weed Seed, tolerance tables 64-70 Weeders 194 Weevil Bait 166 Weevil Killer 202 Weights, test 202 West Virginia Seed Law 151 Western Seedsmen's Ass'n, officers 10 Wholesale Field Seed 72 Wholesale Field Seed 72 Wholesale Field Seed 72 Wholesale Frices of Field Seed 210 Wholesalers of Garden Seed 54 Wild Bird Seeds 98 Wild Mustard 98 Wild Rice 98
Scale Covers, canvas Scales, automatic Scales, counter and platform Scales, egg Scales, laboratory Scarifiers Scales, laboratory Scarifiers Scapens Screens Screens Scroops Scroops Scrapers, roost and floor Screw Hooks (lag thread) Seals Seed and Bulb Stimulant Seed Associations Seed Bins Seed Associations Seed Corn Seed Corn Seed Corn Graders, rotary Seed Dockage Seed Extractors, spiral Seed Agrowers of flower Seed, growers of flower Seed, growers of vegetable Seed Laws, state Seed Measuring Cups Seed Separators Seed Sieves Seed Treater Seed Treater Seed Trade Marks and Slogans Seed Trade Officers Seed Trade Officers Seed Trade Officers Seed Trade Officers Seed Treater See	00080000880882006040280360000032011011111111111111111111111111	Supplies and Equipment 194 Supplies, hotbed 191 Supports, plant 191 Tables, bean hand picking 201 Tags, plant and tree 191 Tags, shipping 201 Tape, nursery 191 Tapes, typing 191 Tarpaulins 201 Tennessee Seed Dealers' Ass'n, officers 10 Tennessee Seed Law 148 Termite Chemicals 191 Testers, seed corn 201 Testers, seed Law 148 Texas Seed Law 148 Texas Seed Law 148 Texas Seed seed Law 191 Thermometers 191 Thermostats and Wafers 201 Threshers, seed 201 Toleranty, exports 85 Timothy Exports by Countries 209 Tobacco Powder 191 <tr< td=""><td>Virginia Seed Law 150 Virginia Seedsmen's Ass'n, officers 10 W Warehousing, field 202 Washers, vegetable, root 193 Washington Seed Law 151 Water Culture 193 Water Plants 98 Water Systems 193 Water Plants 98 Water Systems 193 Water and Fertilizer, root 193 Watering cans 168 Watermelons at a Glance 158 Wax, grafting 193 Weed Burners 168 Weed Cutters 193 Weed Destroyers 193 Weed Seed, tolerance tables 64-70 Weeders 194 Weevil Bait 166 Weevil Bait 166 Weevil Bait 166 Weevil Bait 202 West Virginia Seed Law 151 Western Seedsmen's Ass'n, officers 10 Wholesale Field Seed 72 Wholesale Field Seed <t< td=""></t<></td></tr<>	Virginia Seed Law 150 Virginia Seedsmen's Ass'n, officers 10 W Warehousing, field 202 Washers, vegetable, root 193 Washington Seed Law 151 Water Culture 193 Water Plants 98 Water Systems 193 Water Plants 98 Water Systems 193 Water and Fertilizer, root 193 Watering cans 168 Watermelons at a Glance 158 Wax, grafting 193 Weed Burners 168 Weed Cutters 193 Weed Destroyers 193 Weed Seed, tolerance tables 64-70 Weeders 194 Weevil Bait 166 Weevil Bait 166 Weevil Bait 166 Weevil Bait 202 West Virginia Seed Law 151 Western Seedsmen's Ass'n, officers 10 Wholesale Field Seed 72 Wholesale Field Seed <t< td=""></t<>
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Scale Covers, canvas Scales, automatic Scales, counter and platform Scales, egg Scales, laboratory Scarifiers Scales, laboratory Scarifiers Scoops Screens Screens Screw Hooks (lag thread) Seals Seed and Bulb Stimulant Seed Associations Seed Bins Seed Associations Seed Corn Seed Corn Graders, rotary Seed Dockage Seed Corn Graders, rotary Seed Germination Table Seed, growers of flower Seed, growers of flower Seed Imports, agricultural seeds Seed Measuring Cups Seed Separators Seed Separators Seed Testing Equipment Seed Trade Marks and Slogans 200 Seed Trade Marks and Slogans 213 Seed Trade Officers 10, 12 Seed Trade Officers 10, 12 Seed Treater	000800008808820060402880360000032011011111111111111111111111111	Supplies and Equipment 194 Supplies, hotbed 191 Supports, plant 191 T Tables, bean hand picking 201 Tags, plant and tree 191 Tags, shipping 201 Tape, nursery 191 Tapes, typing 191 Tarpaulins 201 Tennessee Seed Dealers' Ass'n, officers 10 Tennessee Seed Law 148 Termite Chemicals 191 Testers, seed corn 201 Testers, seed Law 148 Texas Seed Law 148 Texas Seed Law 148 Texas Seed seed Law 191 Thermometers 10 Thermometers 10 Thermometers 201 Thershers, seed 201 Tries, plant 191 Tillers 202 Timothy, exports 85 Timothy, Exports by Countries 209 Tobacco Powder 191 Tobacco Powder	Virginia Seed Law 150 Virginia Seedsmen's Ass'n, officers 10 W Warehousing, field 202 Washers, vegetable, root 193 Washington Seed Law 151 Water Culture 193 Water Culture Testing 193 Water Plants 98 Water Systems 193 Watering cans 168 Watering cans 168 Watering cans 168 Watermelons at a Glance 158 Wax, grafting 193 Weed Burners 168 Weed Cutters 193 Weed Destroyers 193 Weed Seed, tolerance tables 64-70 Weeders 194 Weevil Bait 166 Weevil Killer 202 Weights, test 202 West Virginia Seed Law 151 Western Seedsmen's Ass'n, officers 10 Wholesale Field Seed 72 Wholesale Field Seed 72 Wholesale Field Seed 72 Wholesale Frices of Field Seed 210 Wholesalers of Garden Seed 54 Wild Bird Seeds 98 Wild Mustard 98 Wild Rice 98



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SEED Trade Buyers Guide

SILVER ANNIVERSARY-25th EDITION | SILVER

VOLUME XXV

FOR THE YEAR OF 1942



WENTY-FIVE YEARS AGO, with war clouds hanging low over most of Europe, SEED TRADE BUYERS GUIDE made its initial appearance. It was largely an assemblage of government statistical information, including production and price comparisons, with a

list showing sources of supply for certain seeds and allied lines. Though not large in size, it was tops as a medium of value to the trade, with the result that its growth has been consistent and vigorous year after year.

Now, after a quarter century of service to seedsmen, Seed Trade Buyers Guide again sees war clouds hanging low—this time over most of the world. Many trades and industries have been disrupted to the point where manufacture or production is frequently of greater importance than finding sales outlets. In some lines the time-honored laws of supply and demand are entirely disregarded.

Unusual publications are required to cope with the unusual business conditions of times like these. It has been the desire of the publishers to present the trade, in this volume of SEED TRADE BUYERS GUIDE and in the semi-monthly SEED WORLD, modernized business publications which give the desired information in the fewest number of words, or by table and pictures wherever possible.

Suggestions tending to still further streamline SEED TRADE BUYERS GUIDE will be gratefully accepted from our thousands of dealer subscribers. Our efforts, as publishers, are directed solely toward providing a more useful and a more readily accessible volume each year.

To these same thousands of dealer subscribers we dedicate this Silver Anniversary Issue of SEED TRADE BUYERS GUIDE and hope that volumes to follow will continue to merit the friendship and support of two highly important factors in horticulture—users of the book, and its advertisers.

NATIONAL SEEDSMAN PUBLICATIONS

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R. C. HELGESON, Editor

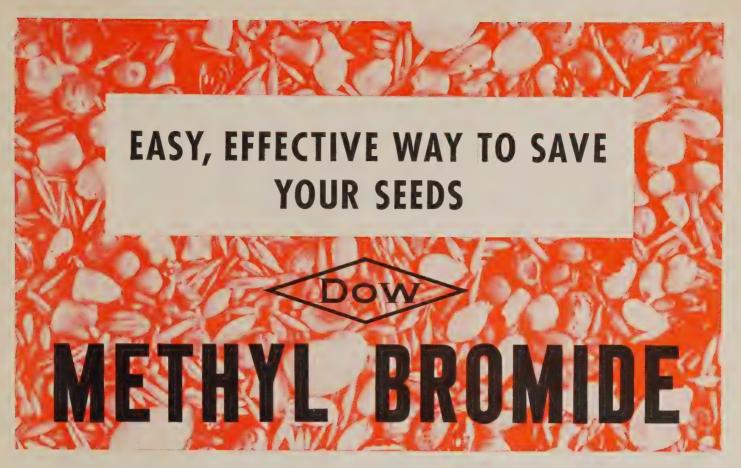
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Indiana Wholesale Seed Dealers' Ass'n.	Purcell Seed Co.,	J. A. McCarty, The J. A. McCarty Co.,
Iowa Seed Dealers' Ass'n	Evansville, Ind.	Evansville. Ind.
lowa Seed Dealers Ass n	Dubuque Seed Co.,	F. A. Fields, Standard Seed Co.,
W. I. C. in l. I. I.	TO 1 T	Des Moines, Iowa.
Kentucky Seed Dealers' Ass'n	· · Carlyle Jefferson, National Seed Co.,	W. P. Bunton,
	Louisville Ky	Bunton Seed Co., Louisville, Ky.
Louisiana Seed Dealers' Ass'n		J. H. Cade,
	Lane Wilson Seed Co., Shreveport, La.	Alexandria Seed Co., Alexandria, La.
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	H. C. King & Sons, Battle Creek, Mich.	Burgess Seed & Nursery Co. Galesburg, Mich.
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	Northrup, King & Co., Minneapolis, Minn.	334 First St North, Minneapolis, Minn.
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	Pace Seed & Supply Co., Cleveland, Miss.	The Goyer Company, Cleveland, Miss.
Missouri Seedsmen's Ass'n	· Robert A. Pommer,	L. H. Archias,
	Corneli Seed Co., St. Louis, Mo.	Archias Seed Store Corp., Sedalia, Mo.
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	Campbell Seed House, Seward, Nebr.	Yager Seed & Nursery Co., Fremont, Nebr.
New York State Seed Ass'n	· · A. W. Banfield.	Geo. B. Weaver.
	Banfield-Jennings Corp., Elmira, N. Y.	Fredonia Seed Co., Fredonia, N. Y.
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	Magill & Co., "Fargo Seed House" Fargo, N. D.	Goldberg Seed & Feed, Moorhead, Minn.



Dow Methyl Bromide saves your seeds from insect damage. Because of its rapid diffusion rate it penetrates throughout large warehouse stacks, killing, at one application, insects in all stages including the egg.

Dow Methyl Bromide is economical, nonflammable and easy to apply and vent. It does not affect germination when used at normal recommended dosages and exposure periods.

TARPAULIN AND VAULT FUMIGATION

Through the use of a new plastic-coated tarpaulin perfected by Dow, individual lots of infested seed may be fumigated at outlying points, buying stations, retail stores, or loading docks. A tarpaulin not only serves as a portable fumigation vault, but provides maximum economy through a minimum of waste space.

Dow Methyl Bromide is a safe, economical, and effective vault fumigant. It is introduced from outside the vault through the use of metal or SARAN* tubing so that the operator is not exposed to

the vapors. The dosage may be weighed out on a platform scale or measured in a specially designed applicator. Because of its rapid diffusion rate, the vault is quickly vented.

WAREHOUSE FUMIGATION

Dow Methyl Bromide is particularly adapted to warehouse fumigation because of its ability to penetrate large warehouse stacks and give a complete kill throughout.

It diffuses under its own vapor pressure at ordinary fumigation temperatures. It is easily applied. Simply seal windows, doors, and other openings, then distribute cylinders evenly throughout the warehouse. At the completion of the exposure period, it will rapidly dissipate through opened windows and doors. Write DOW for a seed fumigation folder giving detailed instructions on this application.

Methyl Bromide is also an effective fumigant for flower bulbs. For detailed information on its use in this and other fields write to Dow.



*SARAN TUBING—Dow has recently developed a chemically resistant tubing made of tough, flexible SARAN plastic which may be used in place of metal tubing to carry Dow Methyl Bromide into vaults and under tarpaulins.

THE DOW CHEMICAL COMPANY, MIDLAND, MICHIGAN

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Big, colorful Vigoro ads will appear in these popular national magazines during your best selling season. Tie in! Feature Vigoro! Get your share of this profitable business!

• 1942 is going to be a big year for Vigoro . . . and for Vigoro dealers.

In the past, most Vigoro promotion has been among upper class home owners. This year, higher wages and more hours of work are putting more money into the pock-

ets of home owners everywhere. There's a vast new market for Vigoro! We're going after that market . . . with a more powerful advertising campaign, a bigger one than ever before, telling the amazing story of Vigoro Magic . . . and Vigoro economy. Don't fail to tie in!

WIGORO THE COMPLETE PLANT FOOD SWIFT & COMPANY, CHICAGO, ILL.

All-America Selections by Species

A SUMMARY OF ALL AWARDS MADE—1933-1942

G-Gold Medal, S-Silver Medal, B-Bronze Medal, M-Honorable Mention



Cosmos Yellow Cosmos, or Yellow Flare. Silver Medal. By W. Atlee Burpee Co., Philadelphia, Pa.

Ageratum							
Name	Award	Year	Introducer				
Midget Blue	S	1940	Waller-Franklin Seed Co.				
	\mathbf{A}	nchus	sa				
Blue Bird	В	1935	Watkins & Simpson				
	Ant	irrhiı	num				
Celestial	8	1938	Sluis en Groot				
Guinea Gold	В	1939	Hurst & Son				
Psyche	M	1938	L. Daehnfeldt, Ltd.				
Rosalie	В	1940	Waller-Franklin Seed Co.				
Royal Rose	В	1936	Hurst & Son				
Rustproof	Special Award	1935	Univ. of California				
St. George	В	1936	Hurst & Son				
White Spire	В	1937	Sluis en Groot				
		Aster	•				
El Monte	В	1936	Bodger Seeds, Ltd.				
Los Angeles	S	1934	Bodger Seeds, Ltd.				
Rose Marie	M	1940	Bodger Seeds, Ltd.				
Silvery Rose	В	1934	Bodger Seeds, Ltd.				



Marigold, Dwarf French Double, Butterball. Bronze Medal. By Bodger Seeds, Ltd., El Monte, Calif.

THUSION		alendi	
Illusion	M	1938	Bodger Seeds, Ltd.
Enchantress	M	1938	Bodger Seeds, Ltd.
Early Giant	S	1939	Bodger Seeds, Ltd.
	Award		
Wilt-Resistant	Special	1933	Bodger Seeds, Ltd.
	Chanin		Dodgos Soods It

	0	ALCIGA	CEAGO
Orange Fantasy	S	1938	
Orange Shaggy	G	1950	Waller-Franklin Seed C Vaughan's Seed Store
Sunshine	G	1934	Bodger Seeds, Ltd. W. Atlee Burpee Co.

Calliopsis

S	1938	Hurst	Son

Golden Crown

Flame of Fire Royal Velvet

Eldorado

Canterbury Bell Angelus Bell Annual Mixed Liberty Bell 1934 Waller-Franklin Seed Co. 1933 Waller-Franklin Seed Co. 1934 Waller-Franklin Seed Co.

1935 T. Sakata & Co. 1939 Livingston Seed Co.

Chrysanthemum

1934 Bodger Seeds, Ltd.



Marigold Dwarf Chrysanthemum Flowered Golden Bedder. Bronze Medal. By W. Atlee Burpee Co., Philadelphia, Pa.

		Cleor	ne
Pink Queen	S	1942	Ferry-Morse Seed Co
	Co	rnflo	wer
lubilee Gem	8	1937	Hurst & Sen
	(Cosmo	os
Orange Flare Sensation Yellow Flare	G 8 8		Bodger Seeds, Ltd. J. V. Edlund W. Atlee Burpee Co.
	Cvr	andas	cm m

Firmament 1939 Ernst Benary

Delphinium S 1933 Waller-Franklin Seed Co. Cambridge Blue

Dianthus Lacimiatus Splendens B 1935 Bodger Seeds, Ltd.

Hollyhock

Indian Spring B 1939 Sluis en Groot

Hunnemania

Sunlite 1934 Bodger Seeds, Ltd.



Petunia Giants of California, Glamour. Honorable Mention. By Bodger Seeds, Ltd., El Monte, Calif.

T.a	rke	pur
Lia	$\mathbf{L} \mathbf{R} \mathbf{S}$	DUI.

22002 2000 2002					
Blue Bell	В	1934	Bodger Seeds		
Rosamund	0	1934	Bodger Seeds	, Ltd.	
White King	В	1937	Bodger Seeds	, Ltd.	

Fairy Bouquet

Dixie

Linaria 1934 Watkins & Simpson

Lunina	

Giant	King	S	1933	Waller-Franklin Seed	Co.

Marigold						
erball	В	1942	Bodger Seeds, Ltd.			
s'm Flowered	M	193 8	Waller-Franklin Seed	Co		
n of Gold	G	1937	W. Atlee Burpee Co.			
e Sunshine	S	1936	H. G. Hastings Co. W. Atlee Burpee Co.			
rf Royal Scot	В	1937	Waller-Franklin Seed	Co.		
Sunshine	В	1939	W. Atlee Burpee Co.			
en Beauty	8	1935	Hurst & Son			
len Bedder	В	1942	W. Atlee Burpee Co.			
en Glow	M	1939	W. Atlee Burpee Co.			
on Wost	M	1932	W Atlea Rurnes Co			



I pomea, Pearly Gates. Silver Medal. Highest number of points. By Ferry-Morse Seed Co., Detroit and San Francisco.

Goldsmith Guinea Gold Limelight Melody	B B	1941 1933 1940 1942	Waller-Franklin Seed Co. Hurst & Son W. Atlee Burpee Co. Ferry-Morse Seed Co.
Monarch Mixed	S	1934	Hurst & Son Bodger Seeds, Ltd.
Primrose Queen	B	1935	Hurst & Son W. Atlee Burpee Co. W. Atlee Burpee Co.
Scarlet Glow	M	1941	
Spry	S	1941	
Yellow Beauty	B	1935	Hurst & Son
Yellow Pygmy	M	1940	W. Atlee Burpee Co.
Yellow Supreme	G	1935	Livingston Seed Co.
Yellowstone	M	1942	Waller-Franklin Seed Co.

Morning Glory

Lavender Rosette	M :		
Scarlett O'Hara	G	1939	Waller-Franklin Seed Co. Dallas Seed Producing Co.
Pearly Gates	S	1942	Ferry-Morse Seed Co.

Myositis

Ingrid	M	1938	L.	Daehnfeldt.	Ltd

Nasturtium

Bodger Seeds Bodger Seeds



Phlox Gigantea Red Glory. Honorable Mention. By Waller-Franklin Seed Co., Guadalupe, Calif.

Golden Globe	S	1936 {	Vis Brothers, Ltd. Bodger Seeds, Ltd.
Scarlet Gleam	G	1935	Bodger Seeds, Ltd.

Nierembergia

В	1942	Bodger	Seeds.	Ltd
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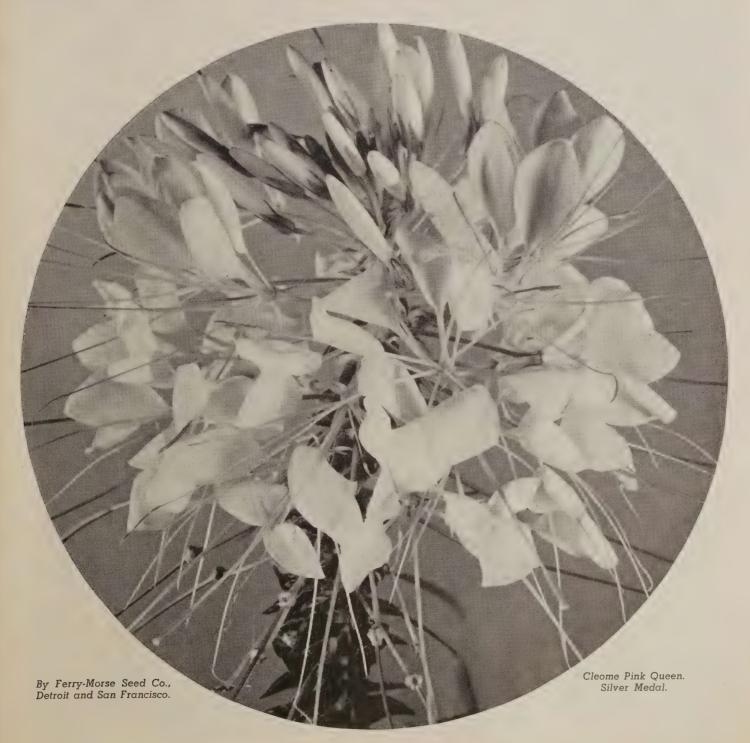
Pansy

			y	
Coronation Gold	S	1938	Sluis en Groot	
Dwarf Swiss Giants	S	1933	Vaughan's Seed Stor	e

Purple Robe

Petunia

	-			
Blue Brocade	S	1941	T. Sakata & Co.	
Blue Gem	M	1938	T. Sakata & Co.	
Burgundy	В	1937	W. Atlee Burpee Co.	
Cream Star	S	1940	W. Atlee Burpee Co.	
Dainty Lady	S	1936	Bodger Seeds, Ltd.	
First Lady	S	1941	T. Sakata & Co.	
Flaming Velvet	G	1936	Sluis en Groot	
Glamour	M	1942	Bodger Seeds, Ltd.	
Glow	S	1940	T. Sakata & Co.	
Hollywood Star	8	1939	Waller-Franklin Seed	Co.
Imp'd. Rose King	В	1936	Ferry-Morse Seed Co.	
Ladybird	B	1939	Ernst Benary	
Martha Washington	S	1935	Waller-Franklin Seed	Co.
Pink Gem	G	1934	Waller-Franklin Seed	Co.
Radiance	S	1941	Waller-Franklin Seed	Co.
Rose Gem	S	1936	Waller-Franklin Seed	Co.
Salmon Supreme	S	1938	W. Atlee Burpee Co.	
Topaz Rose	В	1938	Waller-Franklin Seed	Co.
Velvet Ball	В	1939	(Vis Brothers, Ltd.) Bodger Seeds, Ltd.	
Victorious Apple				
Blossom	M	1939	T.Sakata & Co.	



Burpee's Seeds



A section of the vegetable seed trials at Burpee's Fordhook Farms — a Burpee vegetable scientist makes Melon notes on the 1941 crop.

Burpee's Floradale Farms in California have been found well-suited to the production of Cauliflower seed for merly grown abroad. Below is a growing field which has now been harvested for 1942 delivery.

EARLY, many thousands of acres are planted from Burpee's special stocks of vegetable seeds, in the soils and climates best suited for the harvest of plump, virile, disease-free seeds that will bring profitable crops to your customers.

Even before the complete stoppage of vegetable seeds formerly grown abroad, Burpee vegetable experts were checking the possibilities of increasing the production of Burpee's vegetable seeds to include these crops. Consequently, new acreages were added to the extensive Burpee vegetable plantings last spring; the Cauliflower seed harvest on Burpee's Floradale Farms in California last fall is a timely example—the quality of which we believe to be just as good as the best Danish seed we ever handled.

Sixty-Five Years of Service

For sixty-five years, seedsmen and dealers have been selling Burpee's seeds. In the coast-to-coast seed-production operations of the W. Atlee Burpee Co., no expense is spared in carefully growing and testing the best varieties of both flower and vegetables to maintain the highest quality, uniformity and germination for the entire satisfaction of you and your customers—whether you buy in bulk, or packaged under the Burpee brand to take advantage of the extensive national advertising and publicity that has made the Burpee name a household word among the gardeners of America.

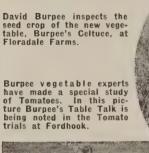
Burpee's Fordhook Farms in Pennsylvania are the most famous seed-breeding and testing farms in the world; many leading vegetables bear the name of Burpee or Fordhook.

Because of conditions well-known in the trade, it is especially advantageous to cover all requirements as early as possible this year.

You have our assurance to meet your needs to the greatest degree our unusually extensive stocks will allow. Please send your want lists to the address on page at right.

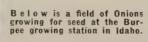
W. Atlee Burpee III aids in making Carrot notes at Burpee's Floradale Farms in California.

The Burpee Buildings in Philadelphia, where headquarters offices, warehouses, packaging and order-filiing departments are located, convenient to both rail and water transportation facilities. Carload shipments are loaded on the private siding.





B e gro





Burpee's Seed

THIRTY years ago, in seeking the ideal soil and climate for growing Burpee's Sweet Peas, the great flower-seed producing area was discovered which today is so well known as Burpee's Floradale Seed Farms. What was then recognized as unsurpassed for the production of Sweet Peas has been found to be the finest flower seed producing section in the entire world. Deep alluvial soil, long season and sunny harvest unite to yield plump, full-ofvitality seeds with the extra vigor that spells dependability.

Here at Floradale Farms in California, at Burpee's Fordhook Farms in Pennsylvania and in other areas suited to the needs of special projects, under the inspiration and direction of David Burpee there has devolved the most extensive flower development program in the world.

Old Varieties Improved, New Varieties Introduced

As a result of this intensive, widespread and constant effort, from year to year there has been a continual procession of Burpee Novelties of merit, and marked improvement in many universally popular classes and strains—Giant Ruffled Sweet Peas, Hybrid Nasturtiums, Marigolds with odorless foliage, Salmon Supreme Petunia, Cream Star Petunia, Cupid Zinnias, David Burpee Zinnias, Golden Rod Snapdragon, Asters, Larkspur, Calendulas, Yellow Cosmos, etc.

For the latest and best, as well as most dependable stocks of all leading flowers and vegetables, also the unusual-send your want lists to Burpee for a sure source of supply.

Burpee's Flower and Vegetable Seeds in Colored Packets -on sale or return basis. If you use display racks and packets, send for the details of this offer.

If you do not already have Burpee's Red List-Wholesale Prices for Seedsmen and Dealers-we invite you to send for your copy now.

W. Atlee Burpee Co. Seed Growers

Hunting Park Ave. at 18th St., PHILADELPHIA, U. S. A.

Telephone: Sagamore 8800-Direct Wires: Western Union & Postal Tel.

Zinnias are a Burpee specialty. Many acres are planted to Zinnias on Burpee's Floradale Farms—we grow a wide variety of types from the tiny cupids to the new Burpee's Super Giants, the largest of all Zinnis.

A few of the improved types and colors of Burpee's Marigolds with Odorless Foliage, introduced within the past three years.

At Burpee's Floradale Seed Farms in Califor-nia David Burpee in-spects some of the Mari-gold plantings. The nu-merous plant selections and further hybridizing are evidence of Burpee faith in a continuously increasing popular de-mand for Marigolds.







A glimpse of the well-known Burpee's Ford-hook flower trials, where Burpee quality is carefully checked and maintained.

Salvia is a well - known crop on Fordhook Farms and each year many fields are grown of the different year. different





In this view may be seen a portion of the experimental plantings to further improve present varieties and to develop new ones on Burpee's Floradale Farms.

LOOK

STORES!



the plant hormone powder

It is hard to find a successful grower these days who does not use ROOTONE for increasing the rooting of cuttings or hastening the germination of seeds. Stock ROOTONE for the new treatment on corn, alfalfa and cotton.



ROOTONE COUNTER DISPLAY



the vitamin-hormone powder

is used by professional and amateur growers alike for stimulating root growth on all plants and reducing loss from transplanting flower, to mato, cabbage and especially tobacco seed-



TRANSPLANTONE DISPLAY CASE

These are among the most heavily and consistently advertised garden accessories. It pays to carry and display them.

Ask your jobber or write for our dealer proposition.

AMERICAN CHEMICAL PAINT CO.

Horticultural Division Y-3 Ambler, Pa.



Nierembergia Coerulea Purple Robe. Bronze Medal. By Bodger Seeds, Ltd., El Monte, Calif.

Victorious Gaiety Victorious, Mixed	B		T. Sakata & Co. T. Sakata & Co. Ferry-Morse Seed Co.	
Victorious Orchid Beauty Violet Gem	S M	1941	T. Sakata & Co. Waller-Franklin Seed	Co.
		Phlox		
Gigantea Art Shades Red Glory Rosy Morn Salmon Glory	M B B	1935 1942 1941 1939	Waller-Franklin Seed Waller-Franklin Seed Waller-Franklin Seed Waller-Franklin Seed	

Poppy, Iceland

Yellow Wonder 1937 W. Atlee Burpee Co.



Marigold Mission Giant Yellowstone. Honorable Mention. By Waller-Franklin Seed Co., Guadalupe, Calif.

V	er	h	en	я
	61	w	CI	C.

Beauty of Oxford	S	1933	Waller-Franklin Seed	Co.
Blue Sentinel	В	1939	W. Atlee Burpee Co.	
Cerise Queen	В	1934	Waller-Franklin Seed	Co.
Dannebrog	S	1934	L. Daehnfeldt, Ltd. Theodore Jensen	
Floradale Beauty	S	1937	W. Atlee Burpee Co.	
Lavender Glory	S	1933	Waller-Franklin Seed	Co.
Spectrum Red	13	1934	Waller-Franklin Seed	Co.
Violet Bouquet	В	1935	Waller-Franklin Seed	Co.
		Zinni	a	

		Zinnia	3
Black Ruby	В	1941	W. Atlee Burpee Co.
Fantasy, Mixture	S	1935	Bodger Seeds, Ltd.
Fantasy, Star Dust	8	1937	Bodger Seeds, Ltd.
Fantasy, White Light	M	1939	Bodger Seeds, Ltd.
Navajo, Mixed	M	1938	W. Atlee Burpee Co.
Royal Purple	M	1942	Ferry-Morse Seed Co

VEGETABLES

Bean

Name	Award	Year	Introducer
Asgrow Stringless			
Green Pod	G	1933	Associated Seed Growers, Inc.
Bush Snap, Long			
Island Longpod	M	1942	William Kroemer
Bush Snap,	-	10.40	
Medal Refugee	В	1942	Associated Seed Growers,
Bush Snap.			Inc.
Tender Pod	В	1941	W. Atlee Burpee Co.
Granda	S	1939	Rudolph Schreiber &
			Sohne
Plentiful	В	1939	Ferry-Morse Seed Co.
(Asgrow) Stringless		1933	Associated Seed Growers,
Black Valentine	S		Inc.
Pole Snap, Decatur	S	1942	Associated Seed Growers,
			Inc.
The Commodore	В	1938	Zwaan & Van der Molen

Rean Lima

		,			
Baby Potato	S	1940	Associated	Seed	Growers,



Lettuce Cosberg 600. Honorable Mention. By Northrup, King & Co., Minneapolis, Minn.

Rudbeckia

Starlight	M	1942		Denholm Seed Co.	an
			11010101	Deca Co.	

Calmia

	Saivia				
ougl Dlug	8.0	1040	Hungt	0_	0.

Rose Pink

Fastuosum

Scahiosa

	~		_ **
Blue Moon	M	1939	Bodger Seeds, Ltd.
Giant Hybrids	В	1934	W. Atlee Burpee Co.
Heavenly Blue	В	1940	W. Atlee Burpee Co
Peace	M	1941	W. Atlee Burpee Co.

Stock

1937 Waller-Franklin Seed Co.

Sweet Pea

Spring.	Blue	В	1940	Ferry-Morse	Seed	Co.
Spring,	Lavender	M	1940	Ferry-Morse	Seed	Co.
Spring.	Rose Pink	S	1940	Ferry-Morse	Seed	Co.

Venidium

S 1933 Bodger Seeds, Ltd.

A Timely Message to Seedsmen



Field scene showing one of the California Flower Seed Ranches of Waller-Franklin Seed Company

THIS last season a great many firms who ordered late found it impossible to obtain, for their 1942 selling season, stocks on a large number of the varieties of FLOWER SEEDS that they usually offer.

The fact that some items were non-obtainable by the firms who ordered late was partially due to the general short crops. However, most of the difficulty experienced in locating stocks was the result of late ordering.

Orders must be filled in the rotation in which they are received, and in the event of a short crop, late buyers often find it impossible to cover on their requirements.

For 1942 crop or for your 1943 selling season, we urge you to place your FLOWER SEED order just as soon as 1942 crop prices are available.

"The better the grower's reputation for quality, the sooner you may expect to find him sold out."

WALLER-FRANKLIN SEED CO.

GUADALUPE. CALIF.

Wholesale Growers

U. S. A.



Bean, Bush Snap, Long Island Longpod. Honorable Mention. By William Kroemer, Hicksville, N. Y.

		Beet
Asgrow Canner	S	1936 Associated Seed Growers, Inc.
Asgrow Wonder	G	1934 Associated Seed Growers, Inc.
Good for All	В	1934 Ferry-Morse Seed Co.
Little Marvel	В	1934 Zwaan & Van der Molen
Ohio Canner	S	1933 Ohio Experiment Station J. M. Lupton & Son
Perfected Detroit	S	1934 J. M. Lupton & Son
Perfect Model	В	1938 Abraham Sluis, Ltd.
	-	1.11

Cabhage

Chieftan	S	1938 Ferry-Morse Seed Co.
Just Right	В	1935 Sluis Bros., Ltd.
Moskow Market Pride	M	1937 Abraham Sluis, Ltd.
Penn State Ballhead	S	1934 { Penn State College J. M. Lupton & Son
Earliest of All (Red) Sauerkraut King	M M	1937 Abraham Sluis, Ltd. 1938 Abraham Sluis, Ltd.

Cantaloupe

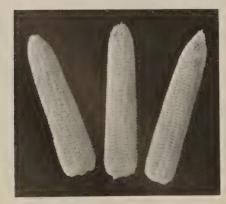
d Co.
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Carrot

Claudía	В	1937	L. Clause, Inc.
Imperator	S	1933	Associated Seed Grower
			Inc.
Morse's Bunching	G	1934	Ferry-Morse Seed Co.
Supreme Half-Long	В	1937	Ferry-Morse Seed Co.

Corn Sweet

	CO	ill, Di	, се
Allegheny, Hybrid	В	1941	Associated Seed Growers
Aristogold Bantam No. 1	M	1939	Michael-Leonard Seed Co
Ear Pack Bantam 12-Row	M	1939	Northrup, King & Co.
Golden Colonel	S	1936	Associated Seed Growers
Hybrid Bantam	S	1935	Sioux City Seed Co.



Hybrid Sweet Corn Lincoln. Bronze Medal. By Connecticut Experiment Station and Maurice Rogers, Orange, Conn.

d Sweet, ncoln	В	1942 {	Conn. Experiment Station Sleeping Giant Seed Farms
d Sweet, Top- tht Bantam	М	1942	Michael-Leonard Seed Co.

Hybri Lin

Hybri flig Ioana

В	1940	Iowa State College Associated Seed Growers,
		Inc.
В	1934	Northrup, King & Co.
M	1941	W. Ralph Singleton

Kingscrost Bantam Spancross, Hybrid Stowell's Evg. Hybrid B 1934 Associated Seed Growers, Inc.

Cucumber

	_		~~~
Barteldes	8	1934	Barteldes Seed Co.
Clark's Special	S	1933	Associated Seed Growers, Inc.
Colorado	S	1935	J. C. Robinson Seed Co.
Straight-8	G	1935	Ferry-Morse Seed Co.

Eggplant

New Hamps, Hybrid 💈 1939 N. H. Experiment Station

Endive

Batavian Full Heart S 1934 Vilnorin-Andrieux & C Cos-type Batavian M 1941 Ferry-Morse Seed Co. Prizewinner B 1937 Sluis Brothers, Ltd.	Co.
--	-----

Kohlrabi

Triumph of Prague S 1937 Sluis Brothers, Ltd.

Lettuce

Atlantic E 1937 Sluis en Groot



Bean, Bush Snap, Medal Refugee. Bronze Medal. Associated Seed Growers, Inc., New Haven, Conn.

Cosberg 600	M	1942 {	U.S. Dept. of Agriculture Northrup, King & Co.
Giant So. Curled, L.S.	G	1935	Abraham Sluis, Ltd.
L. S. White Boston	S	1935	Francis C. Stokes & Co.
New York PW55	M	1942	Pieters-Wheeler Seed Co.
Spearhead	M	1938	W. Atlee Burpee Co.

La. Green Velvet M 1942 Fi	C. Experiment Station ruit & Truck Exp. Sta. G. Hastings Co.

Onion

1937 D. V. Burrell Co. Yellow Valencia



Corn, Hybrid Sweet, Topflight Bantam. By Michael-Leonard Seed Co., Sioux City, Ia.

Parelov

		arsic	J
Evergreen Paramount Peerless	M S S	1940 1936 1934	Ferry-Morse Seed Co. Ferry-Morse Seed Co. Zwaan & Van der Molen
		Pea	

Canner King	В	1937	Associated Seed Grower
Confidence Teton	S	1936 1937	Zwaan & de Wiljes, Inc. Associated Seed Grower
Top Notch	М	1939	Inc. W. Atlee Burpee Co.



Lettuce New York PW55. Honorable Mention. By Pieters-Wheeler Seed Co., Gilroy, Calif.

Pepper

		· obb	
Asgrow King	В	1935	Associated Seed Grower
Fordhook	В	1940	Inc. W. Atlee Burpee Co.
Rocky Ford	В	1938	D. V. Burrell Co.
Sweet Banana	В	1941	Corneli Seed Co.
Windsor A	S	1937	Conn. Experiment Station

Radish

Billiard Ball	M	1938	Sluis en Groot
Comet	8	1936	Zwaan & Van der Molen
Glowing Ball	G	1934	Zwaan & Van der Molen
Jewel	В	1936	Zwaan & de Wiljes, Inc.
White Pearl	В	1935	Sluis Brothers, Ltd.

Spinach

	-		
Bloomsdale No. 5	В	1937	Sluis Brothers, Ltd.
Darkie	В	1937	Zwaan & Van der Molen
Del Monte	M	1938	Zwaan & Van der Molen
Giant Nobel	S	1933	Zwaan & Van der Molen
Resisto	M	1937	Zwaan & de Wiljes, Inc.
Summer Savoy	В	1937	Zwaan & Van der Molen
Viking	8	1935	Sluis en Groot
Winter King	В	1937	Zwaan & Van der Molen

		oquas	at .
Conn. Straightneck	M	1939	Conn. Experiment Statio
Ey. Prolific St'neck	S	1938	Ferry-Morse Seed Co.
Fordhook Zucchini	M	1942	W. Atlee Burpee Co.
Golden Table Queen	В	1939	J. C. Robinson Seed Co.
Yankee Hybrid	В	1941	Lawrence C. Curtis

Tomato

Dim bee grone	12	7000	w. Auce Durpee Co.
Cardinal	M	1938	Associated Seed Growers,
			Inc.
Harkness	M	1938	McFayden Seed Co.
Mingold	S	1940	Minn. Experiment Station
Penn State	В	1936	Walter S. Schell, Inc.
Pritchard	G	1933	U. S. Dept. of Agriculture
Scarlet Dawn	G	1935	Associated Seed Growers,
			Inc.
Victor	В	1941	Keith Barrong

Watermelon

1933 H. G. Hastings Co. Graystone



Squash Fordhook Zucchini. Honorable Mention. By W. Atlee Burpee Co., Phila-delphia, Pa.

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SEEDS LTD. EL MONTE, CALIFORNIA

The Big Family of Legumes

A Pictorial and Descriptive Listing of Most of the Important Kinds and Varieties

by EDWARD H. GRAHAM U. S. Soil Conservation Service

AN used leguminous plants to enrich the soil centuries before he knew what made them useful. Records from the oldest civilizations of Egypt and eastern Asia demonstrate the ancient use of various Old World beans, peas, vetches, soybeans, and alfalfa. One of the early Greek botanists, Theophrastus, in summarizing much that had been learned up to his time, which was the third century before Christ, wrote of leguminous plants "reinvigorating" the soil and stated that beans were not a burdensome crop to the ground but even seemed to manure it. The Romans laid emphasis on the use of leguminous plants for green manuring; they also introduced the systematic use of crop rotations, a practice that was forgotten for a time during the early Middle

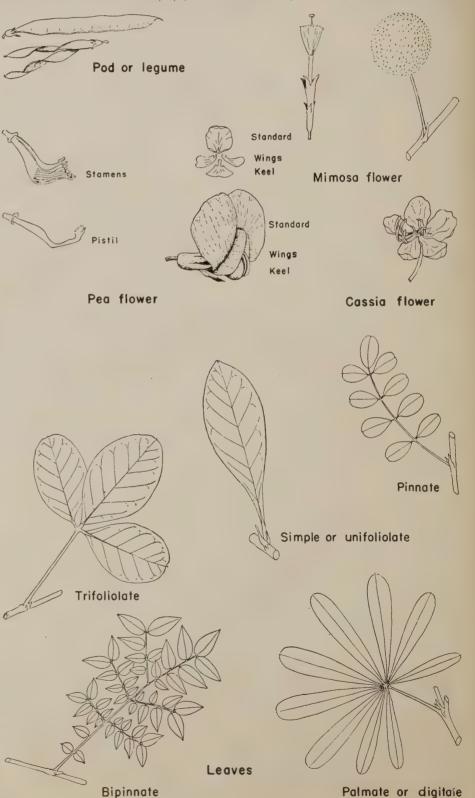
In the Americas as well as the Old World, there was a well-developed native agriculture that had not neglected the indigenous legumes. When Columbus reached the West Indies, he was much impressed by cultivated fields of corn, sweetpotatoes, cassava, and peanuts, the last a legume. The early European immigrants found the Indians of the Atlantic coast raising native legumes with their corn. In the Southwest, beans such as the tepary bean were cultivated, and wild leguminous seeds were ground and eaten by the Indians, the mesquite being a staple food of many tribes. Legumes are second only to the cereal grasses as sources of human food and animal for-

The Leguminosae of the world includes some twelve to fifteen thousand species and is surpassed in numbers by only one other plant family, the Compositae, with about twenty to twentyfive thousand species. The grasses of the world, so important agriculturally, embrace probably 10,000 species, and great expanses of grassland in every continent constitute one of the world's major vegetation types. Legumes and composites, however, usually occur as scattered secondary components of the native vegetation. Although no exhaustive check list has recently been compiled, it is estimated that there are nearly 2,000 species of leguminous plants native to the United States. Many foreign species are naturalized here, and about 50 legumes, mostly introduced, are grown in this country as commercial crop plants. Many exotic and some native legumes are cultivated as ornamentals.

The large number of leguminous plants to be found in the United States necessitated some selection. Strictly

species treated are: (1) Those that have actually been used to control erosion or are unusually promising for their erosion-control value; (2) those

ornamental plants are excluded. The with known records of use by wildlife; and (3) those of significance to the soil and wildlife conservationist for some other particularly pertinent reason. However, both native and introduced



legumes in all parts of the United States have been considered in compiling the list. (Although Mr. Graham's original paper included a list of 400 species, the list here is condensed into 127, all illustrated, which include most of the legumes used in agriculture and sold commercially as seed.—Ed.)

The following pages present information about legumes and their usefulness in soil conservation. It is not a nursery handbook, nor is it a botanical manual. For identification the reader must refer to manuals covering the region in which he is working; consequently, no keys are included and only synoptic facts of botanical description, growth, and range are given.

The Leguminosae, including trees, shrubs, and herbs, constitutes a plant family of world-wide distribution. The flowers vary from regular form, with the sepals and petals alike, to a highly irregular form in which they assume the shape of the typical pea flower, with the five petals highly differentiated. In the pea flower the upper petal forms the broad standard or banner; the two lateral ones, more or less parallel with each other, form the two wings; and the lower two are united into the keel. By far the greater number of species in the family have flowers exhibiting some modification of this irregular form. The arrangement of the stamens likewise varies. They are usually distinct and frequently numerous SEED TRADE BUYERS GUIDE wishes to gratefully acknowledge its indebtedness to Mr. Graham and the U. S. Soil Conservation Service for the text and illustrative material contained in the following pages. More complete information, including the listing of 400 different legumes may be obtained in Miscellaneous Publication No. 412 by the USDA.

in the regular flowers, but in the irregular blossoms they are usually 10 in number, united at the base and clustered within the keel of the flower.

Although there are marked differences in the flowers, the chief character that associates various leguminous plants is the type of fruit, the pod or legume characteristic of the Leguminosae. This fruit is developed from a simple pistil, and at maturity usually splits along two opposite longitudinal sutures. Frequently it splits with considerable force the two halves twisting and throwing the seeds some distance.

The leaves of legumes vary fully as much as the flowers, for although usually alternate, they may be simple, trifoliolate, palmately or digitately divided, or variously pinnate. Simply pinnate leaves may have even or odd numbers of leaflets, hence the terms "evenpinnate" and "odd-pinnate." Odd-pinnate leaves may have the terminal leaflet transformed into a tendril, as in the garden pea. Pinnate leaves may be further divided into twice pinnate, or bi-

pinnate, leaves or still further into thrice pinnate, or tripinnate, forms.

Three subfamilies, distinguished largely on the basis of flower differences, are recognized in the Leguminosae. In each of these subfamilies, the genera listed in this publication are as follows:

Mimosa subfamily, Mimosoideae (small regular or nearly regular flowers, usually in many-flowered clusters) embracing Acacia, Albizzia, Calliandra, Desmanthus, Leucaena, Lysiloma, Mimosa, Neptunia, Pithecellobium, Prosopis, and Schrankia.

Cassia or senna subfamily, Caesalpinioideae (large, usually somewhat irregular flowers, usually not in clusters) embracing Cassia, Ceratonia, Cercidium, Cercis, Chamaecrista, Gleditsia, Gymnocladus, Hoffmanseggia, Parkinsonia, and Poinciana.

Pea or bean subfamily, Papilionoideae (very irregular flowers typical of the family, such as the pea flower) embracing all other genera.

The Krameriaceae, which is included because it is frequently treated with the Leguminosae, differs from that family, among other characters, by the fact that the fruits do not split open as do legumes.

The scientific nomenclature employed in this publication conforms with the International Rules of Botanical Nomenclature. The only new nomenclature proposed is the combination Centrosema arenicolum.



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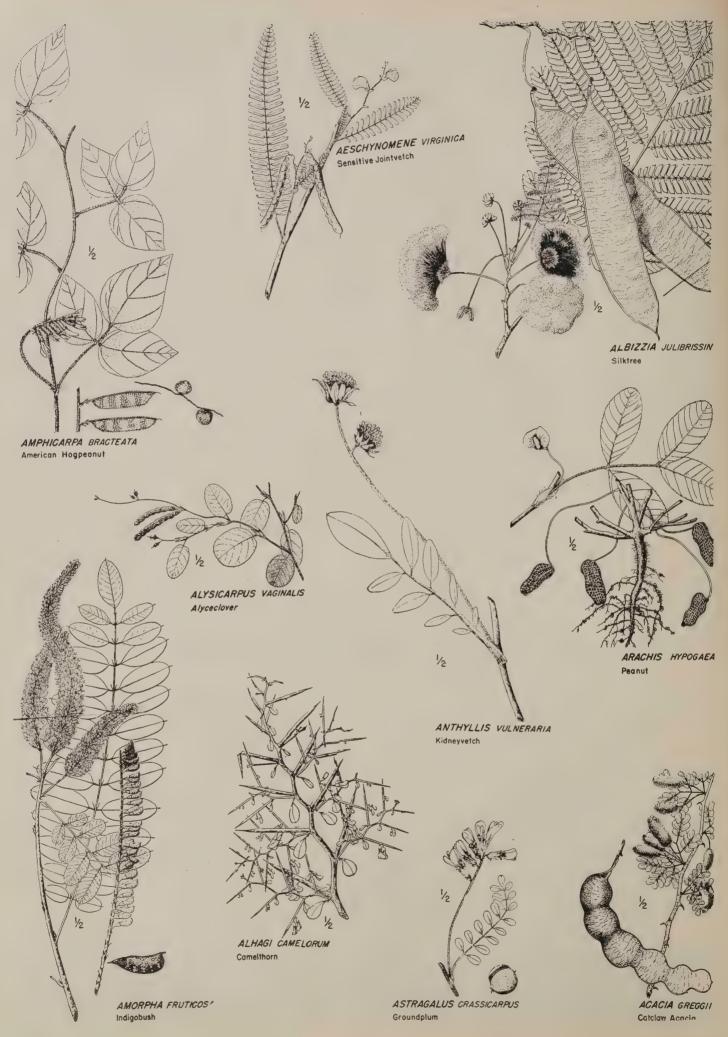
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- Sesbania
- Clovers



Description of Legumes

Acacia greggii Gray (CATCLAW ACACIA)
—A drought-resistant shrub or small tree
with short curved spines and dense cylindrical clusters of fragrant cream-yellow flowers. It is known also as long-flowered catclaw, devil's claw, Gregg acacia, paradise
flower, Texas mimosa, and uña de gato (claw
of cat). The species occurs from Texas to
California and grows best on dry, sunny,
well-drained sites.

Acschynomene virginian (Sanyayana)

California and grows best on dry, sunny, well-drained sites.

Aeschynomene virginica (Sensitive Jointvetch)—An erect herbaceous annual 2 to 5 feet high with pinnate leaves and rather large reddish-yellow flowers. It occurs along river banks throughout the Coastal Plain from Pennsylvania and New Jersey to Florida and Louisiana and is also known as shy-leaves. It prefers moist light soil and is a common rice-field weed.

Albizzia julibrissin Durazzini (Silk Keeds of pink flowers, native to warm temperate Asia from Persia to Japan. It is a hardy ornamental grown in the United States as far north as Washington, D. C. In the Southern States it is commonly called mimosa. Because of its rapid growth, attractive, finely divided leaves, and odd flowers it is widely used as an ornamental.

Alhagi camelorum Fisch (CAMELTHORN)

—A low spiny shrublike perennial with bright red flowers, native from the Caucasus

Alhagi camelorum Fisch (CAMELTHORN)

—A low spiny shrublike perennial with bright red flowers, native from the Caucasus to the Himalayas. It has been introduced to this country within the past 25 years and is now adventive in the Southwest and southern California, especially in date plantings and alfalfa fields. The plant is apparently relished by horses. It is an aggressive species, reproducing by seeds and deep rootstocks.

Alysicarpus vaginalis DC (ALYCECLO-VER)—A native of the East Indies now grown as a summer cover crop in parts of Florida, where it reseeds annually and so maintains a perennial cover. It is adapted to dry, sandy loam soils and is useful as a hay and pasture plant. It is a creeping annual with stems 1 to 3 feet long, unifoliolate leaves, varying greatly in shape, but usually broadly ovate and about 1 inch long, and crowded racemes of 6 to 12 rosy or pale-purple flowers.

Amorpha fruticosa l. (Indigobush)—A very variable branching shrub up to 15 feet in height, with spikes of white to blue or deep purple flowers. It is also known as bastard-indigo and river-locust. It has been much planted in the Great Plains, where it is used in windbreak borders and buffer strips for controlling wind erosion.

Amphicarpa bractenta (American Hog-Peanut)—A twining slender perennial vine with trifoliolate leaves and clusters of pur-plish-brown flowers. It is also known as wild peanut and mouse bean and occurs in rich, moist woodlands and thickets from Maine to Florida, west to Texas and the Dakotas. The vines are eaten by livestock and the underground pods by hogs.

and the underground pods by hogs.

Anthyllis vulneraria L (Kunevvetch)
A deep-rooted hardy perennial Eurasian herb
about 1 foot high, with pinnate leaves and
yellow to deep-red flowers, occurring as an
escape near our eastern seaports. It is also
known as sandelover and woundwort, and
is a forage plant of some value for poor,
light, sandy lands in the more northern latitudes, although not grown commercially in
this country. this country

Arachis hypogaea / Arachis hypogeae L (PEANUT)—A branched yellow-flowered annual herb 10 to 20 inches high, also known as goober and groundnut. Being sensitive to frost, the peanut cannot be grown commercially north of Washington, D. C., but thrives south of that latitude and westward on sandy loany soils that have been limed. The green plants are relished by hogs, and the cured tops make excellent forage. excellent forage

Astragalus crassicarpus Nutt (GROUND-PLUM)—A decumbent perennial, once so abundant as to tinge the prairies with the violet-purple color of its flowers and pods. It is still common on the prairies and plains from Montana to Tennessee and New Mexico and it has been locally cultivated as a forage crop. It is also known as buffalo pea and is relished and easily exterminated by livestock: the pods have served in times of stress for human food.

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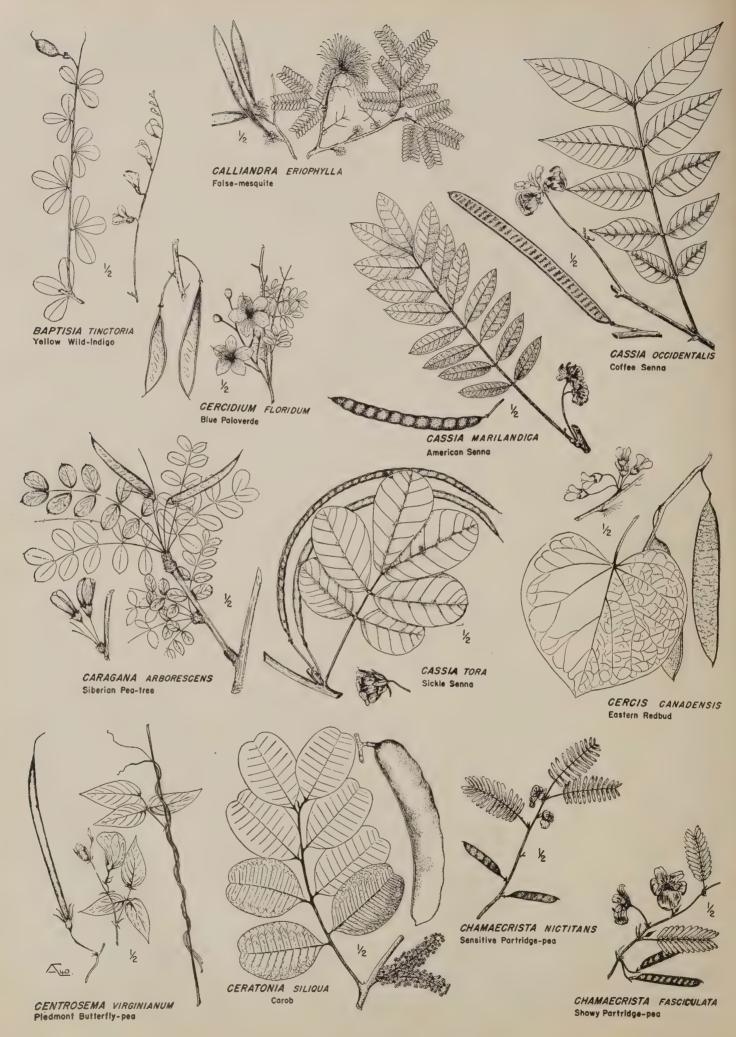
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Description of Legumes

Baptisia tinctoria (Yellow Wild-Indigo)—A branched yellow-flowered perennial herb of dry sandy soil throughout the Eastern States. It is a pioneer plant on burned-over pine land. Indigo dye is obtained from this species, as it is from certain other species of the genus. The root and sometimes the herb are used medicinally, and the young shoots are eaten like asparagus.

Calliandra eriophylla Benth (FALSE-MESQUITE)—A spreading shrub about 2 feet high, also known as mesquitilo, bastard mesquite, and fairy duster, which occurs from western Texas to California.

western Texas to California.

Cassia tora L (Sickle senna)—A glabrous annual about 2 feet tall, with yellow flowers sometimes 1 inch broad. It occurs along river banks from Pennsylvania to Indiana and Missouri, south to Texas and Florida. A common weed in our Southern States, it is also found throughout the Tropics, and is sometimes called low senna. Because of its vigorous growth, it has been recommended as a green manure plant in Texas.

Cassia occidentalis L (Coffee Senna)—A much-branched yellow-flowered glabrous annual 4 to 6 feet tall. It occurs from Virginia to Missouri, south to Florida and Texas, and in the Tropics of both hemispheres. Although often considered a weed, this plant is of possible value as a sand binder in the Southern States, for it grows well in sand and is very heat- and drought-resistant.

Cassia marilandica L (American Senna)
—A little-branched pubescent perennial herb
3 to 8 feet tall.

Caragana arborescens Lam (SIBERIAN PEA-TREE)—A shrub or small tree up to 20 feet in height, with bright-yellow ornamental flowers. It is best adapted to sandy, alkaline soil and sunny situations of the northern Great Plains, and is rather easily propagated by seeds, root cuttings, or layers.

Centrosema virginianum (L) Benth (Piedmont Butterfly-Pea) — A perennial twining vine with large axillary lavender flowers, sometimes cultivated and easily grown, blooming the first season from seed.

Cercidium floridum Benth (BLUE PALO-VERDE)—A drought-resistant compact tree 15 to 25 feet high that occurs in sandy washes or depressions in southern California and Arizona

Ceratonia siliqua L (CAROB)—A beautiful drought-resistant evergreen tree with broad glossy dark-green leaves, native to the eastern Mediterranean region. In this country it is grown largely as an ornamental and shade tree in southern Florida and California, although in California at least the pods are locally ground for cattle food.

Cercis canadensis L (Eastern Redbud)

—A tree up to 40 feet, occurring throughout
the United States east of the ninety-eighth
meridian. It is sometimes known as Judastree and in the Northern States is highly
prized as an ornamental.

Chamaecrista fasciculata (Michx)
Greene (Showy Partridge-Pea)—An erect
or spreading annual herb 1 to 3 feet high,
with showy yellow flowers sometimes 1 inch
wide. It occurs in dry fields and meadows
from Massachusetts to Florida, west to
South Dakota and New Mexico. It is also
called prairie senna, large-flowered sensitive-pea, and dwarf cassia. Sometimes an
annual lespedeza is sown with it to provide
a better soil-protecting cover. It is practically the only legume occurring on land to
be devoted to tobacco to which the tobacco
farmer does not object. In Georgia and
Florida it is considered an important honey
plant, often occurring where few other
honey plants are found and providing nectar
in late midsummer before autumn honey
flowers bloom.

Chamaeerista nietitans (L) Moench (Sensitive Partridge-Pea)—An annual or sometimes perennial, erect or decumbent herb up to 2 feet in height, with small yellow flowers about one-fourth inch long. It occurs in dry or moist, sandy soil from Maine to Georgia, west to Texas and Kansas.

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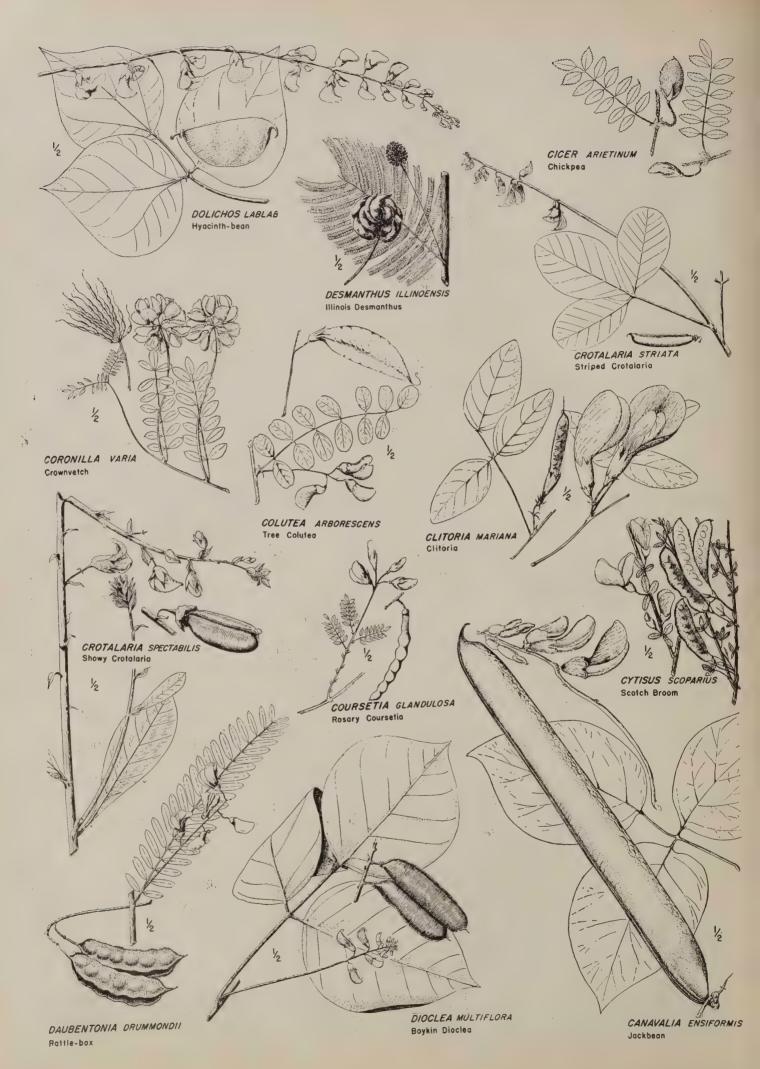
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Description of Legumes

Canavalia ensiformis DC (JACKBEAN)—A coarse, bushy, or climbing annual herb, with purple flowers, introduced from the West Indies and grown in the Southern States to a limited extent as a forage plant. The pods make good snap beans when less than 6 inches long, and the beans themselves are reputedly used as a coffee substitute. It is also known as chickasaw-lima, swordbean, and sabrebean.

swordbean, and sabrebean.

Cicer arietinum L (CHICKPEA)—A hairy bushy Eurasian annual about 2 feet high, sometimes called garbanzo, adapted especially to semiarid areas. The herbage is considered poisonous to livestock. It is much grown in southern Europe, Asia, and Mexico for its seeds, which are used for cattle and human food. In India it is a staple crop, called gram, and annually occupies some 14 million acres of land.

come 14 million acres of land.

Clitoria mariana L (CLITORIA)—An erect or ascending occasionally twining trifoliolate hardy perennial with large pale blue or pinkish flowers about 2 inches long. It has also been called butterfly-pea and occurs in dry sandy soil from New York to Florida, west to Missouri, Texas, and Arizona.

Colutea arborescens L (Tree colutea)

—A yellow-flowered shrub native to southern Europe and northern Africa, sometimes 15 feet in height. It is also called bladdersenna.

Coronilla varia L (Crownvetch)—An herbaceous perennial, with pinnate leaves and pinkish-white flowers in long-stalked clusters. In the eastern United States it is used as a hardy, trailing border plant in

Coursetia-A genus including more than Coursetia—A genus including more than a dozen species of trees and shrubs, largely of South and Central America. Two species, both shrubs or small trees, occur in the United States. One of these is Coursetia axillaris C. and R., known as Texas coursetia and baby bonnets, which is found in southern Texas. The other is Coursetia glandulosa Gray (C. microphylla Gray), the rosary coursetia, of southern Arizona.

Crotalaria spectabilis Roth (Showy Crotalaria spectabilis Roth (Showy Crotalaria)—A tall branching annual, with showy yellow flowers and large simple obovate leaves. It is native to India, but is now grown throughout the Tropics and locally in this country, where it occurs as an escape from Virginia to Florida. It is used as a green manure and cover crop in sandy well-drained soils and has proved especially valuable in Florida tung and citrus groves before the trees are tall enough to produce much shade.

Crotalaria striata DC (STRIPED CROTALARIA)—An introduction from eastern Africa used somewhat as a green manure and cover crop in the South. It has large trifoliolate leaves, and the yellowish flowers are boldly streaked with purplish-brown; hence the vernacular name here applied to the species.

Cytisus scoparius (L) Link (Scotch Broom)—An evergreen shrub up to 10 feet in height, producing masses of brilliant yellow flowers in early Spring. It has been introduced from Europe and is established in the northeastern and northwestern United States.

Daubentonia drummondii Rydb (RATTLE-BOX)—A shrubby perennial, with paleyellow flowers and narrow pinnately compound leaves that have as many as 60 leaf-

Desmanthus illinoensis Michx (Illinois DESMANTHUS)—An erect or ascending her-baceous perennial up to 3 feet in height, with flowers and leaves similar to those of the preceding species.

Dioclea multiflora (Boykin Dioclea)—A perennial purple-flowered shrubby climber, the only member of the genus found in this country. It occurs on shaded river banks from Georgia to Arkansas and Louisiana.

Dolichos lablab L (Hyacinth-Bean)—A species of the Indian tropics, also called bonavist, black-bean, and Egyptian bean, which has been used since ancient times in Africa and southern Asia much as cowpeas are used in the United States.

(Continued on page 34)

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	RECT COLLEGE OF MUMI	RIENTS	SOME CONDITIONS* WHICH HAVE
NUTRIENT	Plant Sources Animal Sources		BEEN CAUSED BY LACK OF NUTRIEN OR CURED BY FEEDING NUTRIENT
Vitamin A	Wild greens Escarole Leaf lettuce Spinach Green cabbage Collards Sweet potatoes Tomatoes Mustard, turnip, Squash and beet leaves Kale	Liver Egg yolk Butter Cream Milk, whole	Night blindness, sensitivity of eyes to bright light. Dryness and scaliness of skin. "Goose-pimple" skin, ingrown hair.
Thiamin (vitamin B ₁)	Whole-grain products—bread, flour, cereals Bran Wheat germ Beans—soy, navy, and lima Peas	Pork, lean Liver Kidney Heart Muscle meats Fish Eggs Milk	Poor appetite, constipation. Tiredness, low capacity to do work. Neuralgia, tingling in feet and hands; nervousness. Some types of heart trouble. Dropsy, sleeplessness, delirium tremens.
Riboflavin	(None comparable to animal sources)	Milk Liver Kidney Heart Muscle meats Eggs	Eyes that burn, itch, tire easily or are ser sitive to bright light; pink tinge sur rounding iris. Blackheads and "whiteheads," oily ski tiny blood vessels visible on face. Sore lips with cracks at corners. Purplish color of tongue. Decreased resistance to infections.
Nicotinic acid	Spinach Kale Collards Leaf lettuce Green cabbage	Liver Kidney Muscle meats Fish Milk Eggs	Sore mouth and tongue, burning of throa alternate constipation and diarrhea, pa in the region of the breast bone. Rough, chapped skin particularly in winte Sleeplessness, emotional instability, hyteria, delirium. Decreased resistance to infections.
Pyridoxin (vitamin B ₆)	Whole-grain products—bread, flour, cereals Bran Wheat germ Beans and peas	Muscle meats Fish	Some types of shaking palsy, rigidity muscles, lack of facial expression. Sleeplessness, nervousness, poor appetit Weakness.
Ascorbic acid (vitamin C)	Oranges Grapefruit Strawberries Tomatoes Sprouted beans Raw vegetables Potatoes, white	(None compa- rable to plant sources)	Tiredness, decreased capacity to do wor laziness, skin hemorrhages, spong bleeding gums. Poor healing of cuts and wounds. Serious after-effects of disease.
Tocopherol (vitamin E)	Oils from seeds, corn, cottonseed Green leafy vegetables Whole-grain products Beans and peas	Egg yolk	Muscle weakness, some types of musc paralysis. Sterility.
Vitamin K	Spinach Kale Collards Green cabbage Tomatoes	(None compa- rable to plant sources)	Slow clotting of blood, particularly in finten days of life and in obstructive jaurdice. Excessive loss of blood at childbirth. Hemorrhages following operations.
Unsaturated fatty acids	Oils from seeds	Lard Liver Fat pork Egg yolk	Eczema. Scaliness of skin.
Protein	Dried peas and beans, particularly soybeans Corn, wheat, and oat products	Milk Cheese Eggs Liver Kidney Muscle meats	Tiredness, general weakness, laziness, an mia, dropsy. Serious after-effects of disease.
Calcium	(None comparable to milk or cheese)	Milk and cheese	Poorly calcified bones and teeth.
iron	Whole-grain products Bran Green leafy vegetables	Liver Eggs Muscle meats	Tiredness, general weakness, laziness. Anemia. Slow progress in school and mental duness.

^{*} Many of these conditions can be caused by other means than faulty food habits.

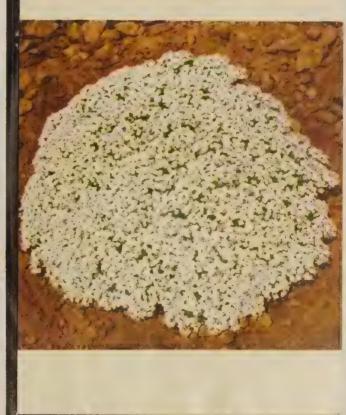


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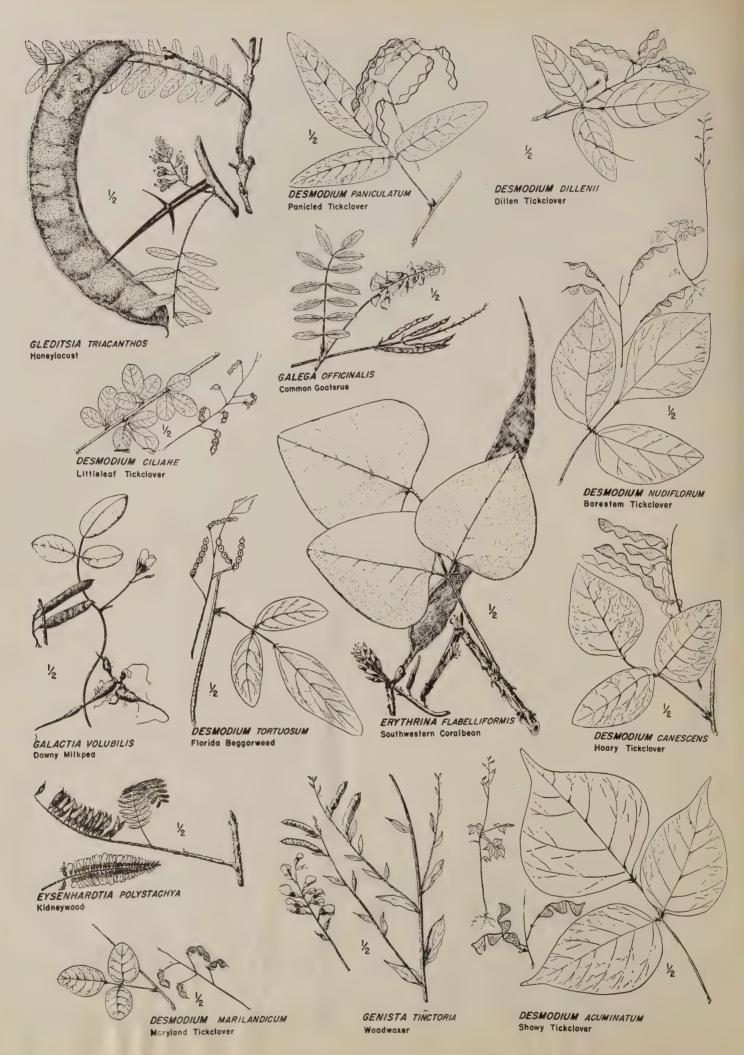
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Description of Legumes

Desmodium acuminatum Michx (Showy Tickclover)—A perennial 1 to 5 feet tall, with the leaves clustered about midway on the flowering stem, which bears rather showy purple flowers. It occurs in dry sandy or rich woodland situations throughout the eastern United States.

Desmodium canescens (L) DC (Hoary Tickclover)—An erect much-branched hairy perennial 3 to 5 feet tall, occurring in rich, moist woodlands east of the 100th meridian.

Desmodium ciliare (Muhl) DC (LITTLE-LEAF TICKCLOVER)—A bushy perennial 1 to 3 feet tall, occurring on dry open sites throughout the eastern United States.

Desmodium dillenii Darl (DILLEN TICK-CLOVER)—An erect perennial 2 to 3 feet tall, with greenish to lavender flowers, occurring in woods throughout the eastern United

Desmodium marilandicum (MARYLAND TICKCLOVER)—A slender perennial occurring in dry shaded areas throughout the eastern United States.

Desmodium nudiflorum (BARESTEM Desmodium nudiflorum (BARESTEM TICKCLOVER)—A slender perennial up to 3 feet in height. It differs from most species of the genus in that it consists of a leafless flower stalk arising from the base of the plant, with the leaves clustered on a separate sterile shoot. It occurs in dry woods throughout the eastern United States.

Desmodium paniculatum (PANICLED TICKCLOVER)—A slender perennial 2 to 4 feet tall, with narrow leaflets and purplish flowers, occurring throughout the eastern flowers, occur United States.

Desmodium tortuosum (FLORIDA BEGGARWEED)—A sparse annual or rarely perennial herb also known as Cherokee clover and purple tick trefoil. On good soil it may be 5 to 10 feet high and somewhat woody. It is widely distributed in tropical America, occurring naturally in the Coastal Plain of Florida and Georgia. It is sometimes grown as a forgee crop as a forage crop

Erythrina flabelliformis Kearney (Southwestern coralbean)—A spiny shrub or small tree with elongate scarlet flowers. It is also known as chilicotte or Indian bean. It occurs in southern New Mexico bean. It occand Arizona.

Eysenhardtia polystachya (KIDNEY-wood)—A shrub or small tree with pinnate leaves and spikes of small white aromatic flowers. It occurs from southern Texas to Arizona and is also known as rock brush, false-mesquite and, by the Mexicans, as palo dulce. It is considered good goat browse and is relished by horses and cattle throughout summer and fall.

Galactia volubilis (Downy MILKPEA)—A lavender-flowered prostrate perennial herb frequently climbing over bushes, and occurring in sandy soils from New York to Florida westward to Tennessee and Texas. It is a variable species and varietal forms have been described. been described.

Galega officinal's L (COMMON GOATSRUE) —A deep-rooted Eurasian perennial with stout stems 3 to 4 feet high, racemes of purplish flowers and pinnate leaves. It occurs as an escape in Kansas, Colorado, and Utah, where it is grown as a garden ornamental.

Genista tinetoria L (WOADWAXEN)—A yellow-flowered European shrubby perennial also known as dyer's greenweed or broom. It is escaped and naturalized on sterile hills and roadsides in the northeastern United States.

Gleditsia triacanthos L (Honeylocust)—A tall tree of rich woods and floodplains from western New York to Georgia, west to Texas and eastern Nebraska. It has bipinnate leaves, clusters of greenish flowers, and long, many-seeded pods. It is widely planted in gullies and wood lots for erosion control, and in windbreaks to control wind erosion in the Great Plains. Stock eat the young growth and pods, which are high in sugar content.

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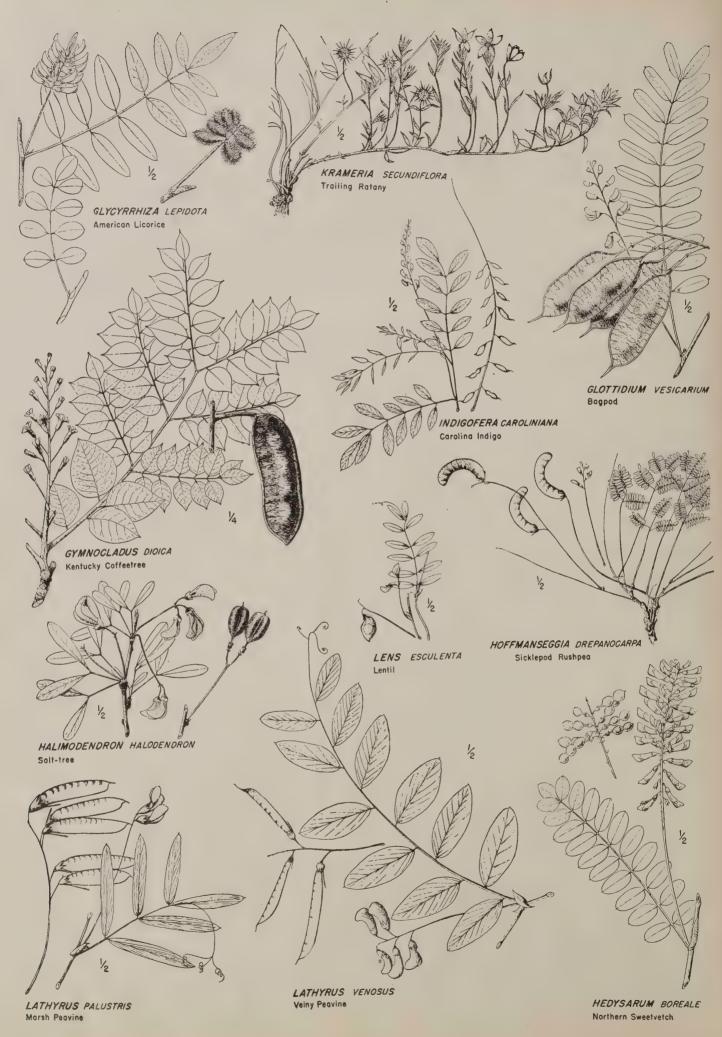
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Description of Legumes

Glottidium vesicarium (BAGPOD)—A tall widely branching annual herb up to 12 feet in height, with yellow flowers and pinnate leaves. It is also called bladder pod and occurs on moist sites of the Coastal Plain from North Carolina to Texas. The plant makes good growth in a short time in damp areas on depleted soils and may aid in erosion control if planted with a lower, closer ground cover. Cattle are known to eat the seeds.

Glycyrrhiza lepidota Pursh (AMERICAN LICORICE)—The only American species, a perennial herb with axillary clusters of white, yellow, or bluish flowers, pinnate leaves, and prickly pods. It occurs throughout the States west of the Mississippi River in a variety of sites. It is of low palatability, and although shade-tolerant and a good soil binder it is in some places considered a weed, since it spreads rapidly by rootstocks and the prickly pods or burs are a nuisance.

Gymnoeladus dioica (L) Koch (Kentucky coffeetree)—A tall unarmed tree with large compound leaves and terminal racemes of whitish flowers. It occurs in rich woods from central New York to Tennessee, west to South Dakota and Oklahoma. The leaves and pods are considered poisonous to cattle and sheep, although cases of poisoning are infrequent.

 $\begin{array}{c} \textbf{Halimodendron halodendron $Voss$ (Saltter=)$—A spreading shrub up to 6 feet in height with purplish flowers, also known as Siberian sandthorn, native to the salt steppes of central Asia. It is grown as an ornamental for its handsome profuse flowers.$

Hedysarum—A genus of some 100 species of perennial herbs or small shrubs of the north temperate region. About 10 occur in the western United States, and one of these, the northern sweetvetch, Hedysarum boreale Nutt., extends across the northern plains into the Northeastern States. The plants are sometimes confused with species of Astragalus but differ by having jointed pods, gland-dotted leaves, and squarish-tipped flowers. They are sometimes called sullaclovers and sweetvetches, and are of fair palatability, being relished by all classes of livestock.

Hoffmanseggia drepanocarpa Gray (Sicklepod Rushpea)—A species similar to the preceding. It occurs on dry hills from western Texas to Colorado and Arizona.

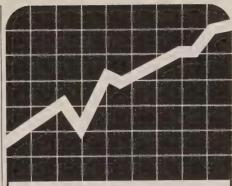
Indigofera caroliniana Walt (CAROLINA INDIGO)—A tall branching perennial herb, with pinnate leaves and yellowish-brown flowers. It occurs in pine woods from North Carolina to Florida and Louisiana.

Krameria secundiflora DC (Trailing ratany)—A low-spreading perennial, often woody at the base, with simple leaves and red or yellow flowers. It is also called Texas ratany and sandbur and occurs on a great variety of soils from southern Arizona to western Texas northward in the Plains to Kansas. Its widely spreading roots and slender trailing, almost vinelike herbaceous stems, which develop from a woody crown, indicate promise as an erosion-control plant.

Lathyrus venosus Muhl (Veiny Peavine)—A decumbent or climbing purple-flowered perennial occurring on river banks from New Jersey to Georgia and Texas.

Lathyrus palustris L (Marsh Peavine)
—A slender purple-flowered perennial of
moist sites. It occurs from the New England States west to the Pacific Coast and
also in Europe and Asia.

Lens esculenta L (Lentil)—A muchbranched annual, 1 to 2 feet tall, native to Southern Europe. Its highly nutritious seeds, one or two to the pod, have made it one of the important food plants of man since ancient time. It is only occasionally grown in the United States. The magnifying glass was called a lens because it was shaped like the seed of this plant.



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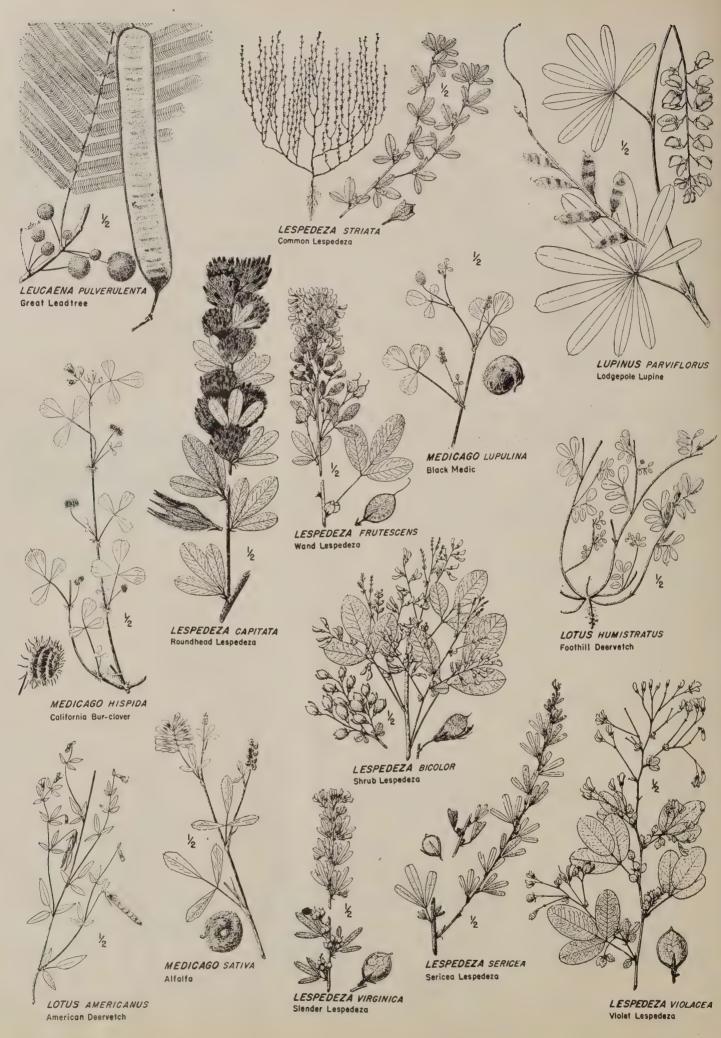
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CRAVER - DICKINSON SEED COMPANY BUFFALO NEW YORK Description of Legumes

Lespedeza bicolor Turcz (Shrub Lespedeza)—A perennial bushy shrub 4 to 10 feet high, with fair-sized purple flowers. It is native to Japan but has been grown for some years as an ornamental in the Eastern States.

Lespedeza capitata Micha (Roundhead Lespedeza)—A stiff erect perennial about 3 feet tall, with yellowish-white flowers. It occurs in dry fields and open sandy woods throughout the eastern United States.

Lespedeza frutescens (WAND LESPEDEZA)

—An erect purple-flowered perennial 1 to 3 feet tall occurring in dry upland soils throughout the eastern United States.

Lespedeza sericea (Sericea Lespedeza)
—A deep-rooted somewhat bushy perennial about 3 feet high, with greenish-yellow flowers. The leaflets of the trifoliolate leaves are usually broadest at the square-cut tip. A native of Asia, it was first grown in this country in 1896 and is apparently well adapted to conditions from the Gulf States to about 100 miles north of the Ohio River, west to central Kansas and Oklahoma. It has survived several seasons in southern Vermont and southern Michigan and it has withstood winter temperatures of —17° F.

Lespedeza strinta Thunb (Common Lespe

Lespedeza striata Thunb (COMMON LESPEDEZA)—A branching annual usually less than 1 foot in height, with blue-purple flowers. The three leaflets are elliptic in shape. They are less broad and the stipules are much less conspicuous than in L. stipulacea; furthermore the stem pubescence points downward, not upward as in L. stipulacea. Is it native to eastern Asia and was introduced into the southern United States prior to the Civil War. It is frequently called Japan clover.

Lespedeza violacea (L) Pers (VIOLET LESPEDEZA)—A much-branched, slender perennial, 1 to 3 feet high, with rather showy violet-colored flowers. It occurs in dry soil throughout the eastern United States.

Lespedeza virginica (L) Britt (Slender Lespedeza)—An erect wandlike or slightly branching purple-flowered perennial of dry soils throughout the eastern United States. It is shade-tolerant, a good soil improver, and a pioneer on bare areas such as shale road cuts.

Leucaena—A genus of a dozen species of unarmed trees and shrubs, closely related to *Acacia* and *Mimosa*, and largely confined to tropical and subtropical America.

Lotus americanus (Nutt) Bisch (AMERICAN DEERVETCH)—A variable slenderstemmed loosely branched annual 10 to 20 inches high, usually with 3-foliolate leaves and pinkish flowers. It grows in dry sandy soil from Minnesota to Arkansas westward, frequently on acid soil.

Lotus humistratus Greene (Foothill Deervetch)—A prostrate to ascending diffusely branched woolly annual with 3- to 5-foliolate leaves and yellow flowers. It occurs from southern California to eastern New Mexico and is also known as hill lotus and colchita.

Lupinus parviflorus Nutt (Lodgepole Lupine)—A slender perennial, 1 to 3 feet high, with light blue or sometimes white flowers. It occurs in meadows from South Dakota and Colorado to Utah and Montana.

Medicago hispida Gaertn (California Bur-clover)—A yellow-flowered annual naturalized from Europe. It is adapted to climates with mild winters and is most used in California and the other Pacific Coast States as a winter cover and green-manure crop and as a pasture plant.

Medicago lupulina L (Black Medic)—An introduced yellow-flowered European annual escaped in waste places throughout the country. It is also called nonesuch, hop medic, and yellow trefoil.

Medicago sativa L (ALFALFA)—A deeprooted purple-flowered perennial with several stems from a root crown. It is second only to red clover as a forage crop in America. It is known to have been cultivated in Persia about five centuries before Christ and was first grown in the United States in Georgia in 1736, although it was not until it reached California from Chile in 1850 that its use became widespread in this country.



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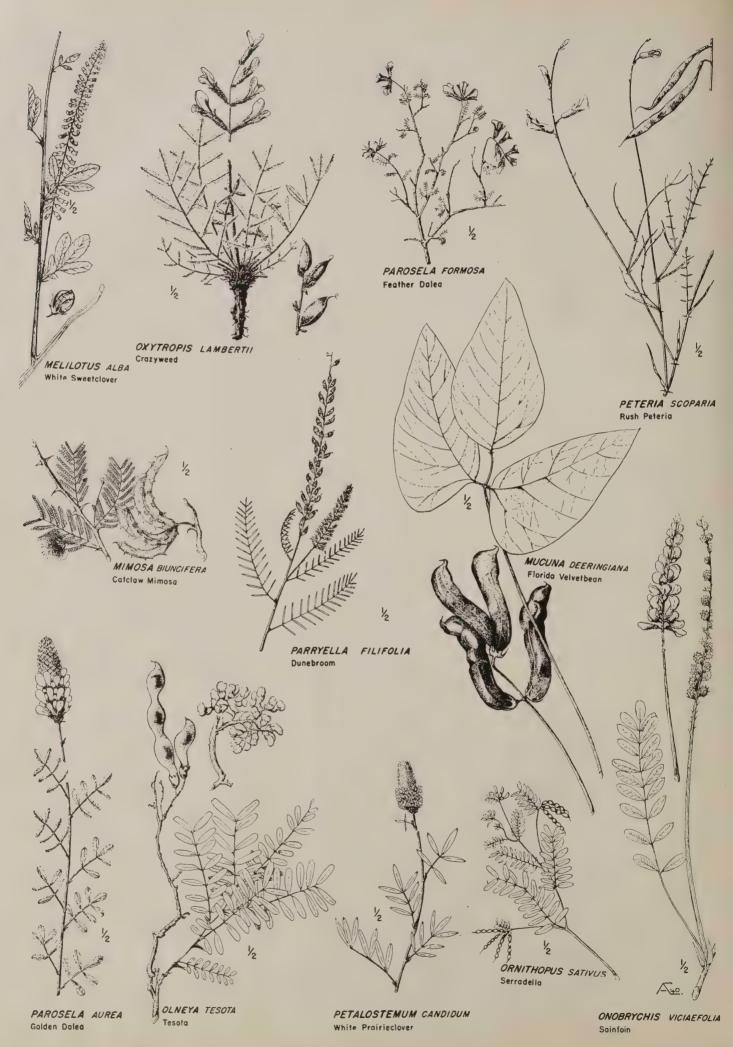
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Description of Legumes

Melilotus alba Desv (White sweetclover)—A, white-flowered Eurasian biennial, also known as Bokhara clover, Bokhara melilot, or white melilot, which develops a fleshy, somewhat branched taproot the first year and a fair top growth the second. Vigorous shoots, sometimes 10 feet high, will develop from buds near the root crown. There is an annual variety (M. alba annua Coe) known as Hubam clover or annual melilot, which, when seeded alone, grows 5 to 8 feet high and matures a crop in 5 months' time.

Mimosa biuncifera Benth (CATCLAW MIMOSA)—A low spiny shrub about 3 feet tall with heads of yellowish-white flowers; it occurs in dry rocky or sandy situations from western Texas to southern Arizona.

Mucuna deeringiana (FLORIDA VELVETTBEAN)—A high-climbing annual, or usually so, with large trifoliolate leaves, red to purplish green or yellow flowers, and dark-colored pubescent pods. The velvet hairiness of the pods is irritating to the skin of some persons. The flowers are a source of honey. It is grown principally as a summer forage and soil-improving crop in the Southern States.

Olneya tesota Gray (Tesota)—A small spiny-branched tree, 15 to 20 feet high, with clusters of purplish flowers that appear before the pinnate leaves.

Onobrychis viciaefolia Scop (Sainfoin)

—A pinkish-flowered long-lived deep-rooted perennial herb of southern Europe, also called holy clover and esparcet. The name sainfoin means literally "healthy hay," and in France the plant is much used for hay; there as well as in England it also serves as the source of the very finest honey. It has not proved very successful as an erosion-control plant in this country.

Ornithopus sativus Brot (Serradella)—A slender-stemmed much-branched annual with rose-colored flowers, native of Spain and Morocco. It is cultivated as a forage and green-manure crop in central Europe, although used in this country only in experimental trials, which have not shown promise.

Oxytropis—A genus of some 200 species of perennial herbs and shrubs, which are distributed throughout north temperate regions. About 40 species occur in the United States, the great majority of which are native to the Rocky Mountains and adjacent plains. They are much like Astragalus but differ by having the keel of the flower prolonged into a beak. The genus includes species poisonous to cattle, as the crazyweed, Oxytropis lambertii Pursh.

Parosela aurea (Nutt) Britt (GOLDEN DALEA)—A few-stemmed perennial herb about 1½ feet tall, with pinnate leaves and yellow flowers, occurring in the plains and hills from South Dakota to Colorado, Texas, and Missouri.

Parosela formosa (Torr) Vail (FEATHER DALEA)—A small drought-resistant muchbranched shrub with tiny pinnate leaves. It has been called feather peablish and is a handsome plant when in bloom, for the flowers are rose-colored with yellowish standards. The shrub occurs from Utah and Colorado to Arizona and Texas.

Parryella filifolia Torr and Gray (Dunebroom)—A low much-branched drought-resistant shrub of New Mexico and Arizona. It has alternate, odd-pinnate leaves and narrow spikes of small yellowish flowers, which are without petals.

Petalostemum candidum (Willd) Michx (WHITE PRAIRIECLOVER)—A white-flowered perennial herb with several erect stems 1 to 3 feet tall, widely distributed in the prairies from Canada to Texas and Louisiana.

Peteria scoparia Gray (RUSH PETERIA)

—A low spiny herbaceous perennial with rather large, greenish, pink-tinged flowers and pinnate leaves with tiny leaflets deciduous from the rachis. It occurs in sandy areas from western Texas to southern Arizona but is nowhere abundant. It has a small edible tuberous rootstock called camote de monte (mountain sweetpotato).

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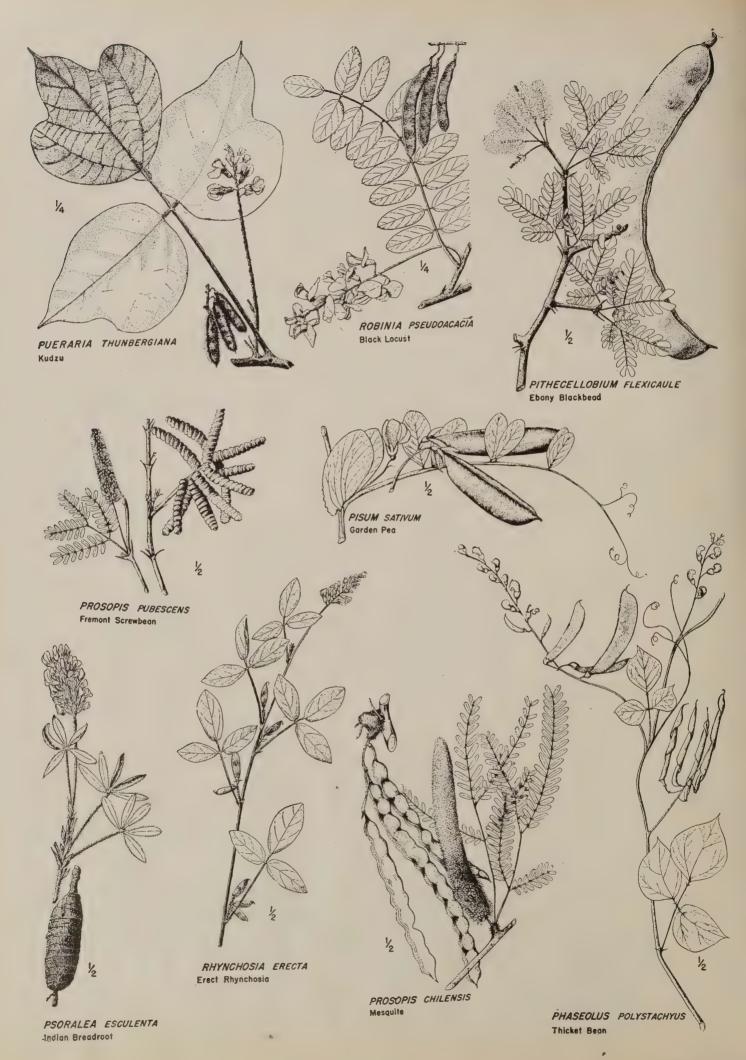
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Description of Legumes

Phaseolus polystachyus (THICKET BEAN) Phaseolus polystachyus (THICKET BEAN) A branched vine up to 15 feet in length from a perennial root, with purple or whitish flowers. It is one of the few widely distributed species native to the United States, occurring in thickets from Connecticut to Florida, westward to Nebraska and Texas. It has been experimentally used as a road-side erosion-control plant with fair success.

Pisum sativum L (Garden Pea)—The garden pea is a white-flowered tendril-bearing annual, native to the Mediterranean region and eastward to the Himalayas.

The field pea (var. arvense Poir.) is a cool-weather variety of the garden pea with brown- to black-speckled seeds in place of the green or yellow seeds of the garden pea. It is much grown in Canada; hence the name Canadian field pea. In the South it is used as a green-manure and winter-cover crop and is there known as Austrian Winter pea.

Pithecellobium—More than 100 species of trees and shrubs occurring throughout the Tropics and subtropics. About five species are native to the United States, occurring in southern Texas and southern Florida. These include the Ebony blackbead or Texas-ebony, Pithecellobium flexicaule (Benth.) Coulter, which has edible seeds and durable wood locally used for fence posts, and the guajillo, huajillo, or blackbead, Pithecellobium brevifolium Benth., also of southern Texas, which is of some importance as winter browse for sheep and goats.

Prosopis chilensis (Mol) Stuntz (Mesoutte)—A shrub or tree up to 20 feet or more, occurring from southwestern United States to Chile. It is sometimes called algarroba and has bipinnate leaves with small narrow leaflets, sweet-scented, greenish-yellow flowers in long cylindrical racemes and slender pods 4 to 8 inches long borne in drooping clusters drooping clusters.

Prosopis pubescens Benth (Fremont screwbean)—A shrub or tree of the Southwest, with bipinnate leaves, spikes of yellow flowers, and spirally coiled pods. It occurs from west Texas to southern California.

Psoralea esculenta Pursh (Indian Bread-Root)—A perennial herb of the Great Plains from Wisconsin to Texas and westward. It is about 2 feet tall, or less, has dense clusters of bluish flowers and palmately 5-parted leaves. In appearance the plant resembles a lupine, but lupines do not have tuberous roots nor gland-dotted leaves.

tuberous roots nor gland-dotted leaves.

Pueraria thunbergiana (Sieb and Zucc)

Benth (Kudzu)—A vigorous fast-growing perennial vine native to Japan and China and grown in the United States from Pennsylvania to Florida. In the Northern States it has been used for some time as an ornamental screen, largely for its dense foliage of large attractive trifoliolate leaves. In the Southeastern States it is assuming an important role as forage and for revegetating gullies and other eroded areas. As it does not seed heavily in the United States, it is best propagated from 2-year-old root crowns possessing fleshy roots and sound buds. It may also be grown from 1-year-old seedlings and by noded cuttings from 2-year-old vines. Under favorable conditions it may produce a dense growth in 1 year, but 2 or 3 years are usually necessary for it to develon a ground cover, after which the plant grows profusely and spreads rapidly. Its rapid growth and habit of rooting at the nodes make it especially efficient as an erosion-control plant. Since it climbs readily it must not be planted with trees or shrubs which it may smother. It can, however, be controlled by plowing or heavy grazing.

Rhynchosta erecta (Walt) DC (ERECT RHYNCHOSIA)—An erect rather stout perennial herb 1 to 3 feet tall, with yellow flowers and trifoliolate leaves. It occurs in dry soils from Delaware to Florida, Tennessee, and Louisiana.

Robinia pseudoacacia L (Black Locust)—A tree originally occurring in the Appalachians and Ozark Mountains but now widely cultivated in the United States, southern Canada, and parts of Europe.

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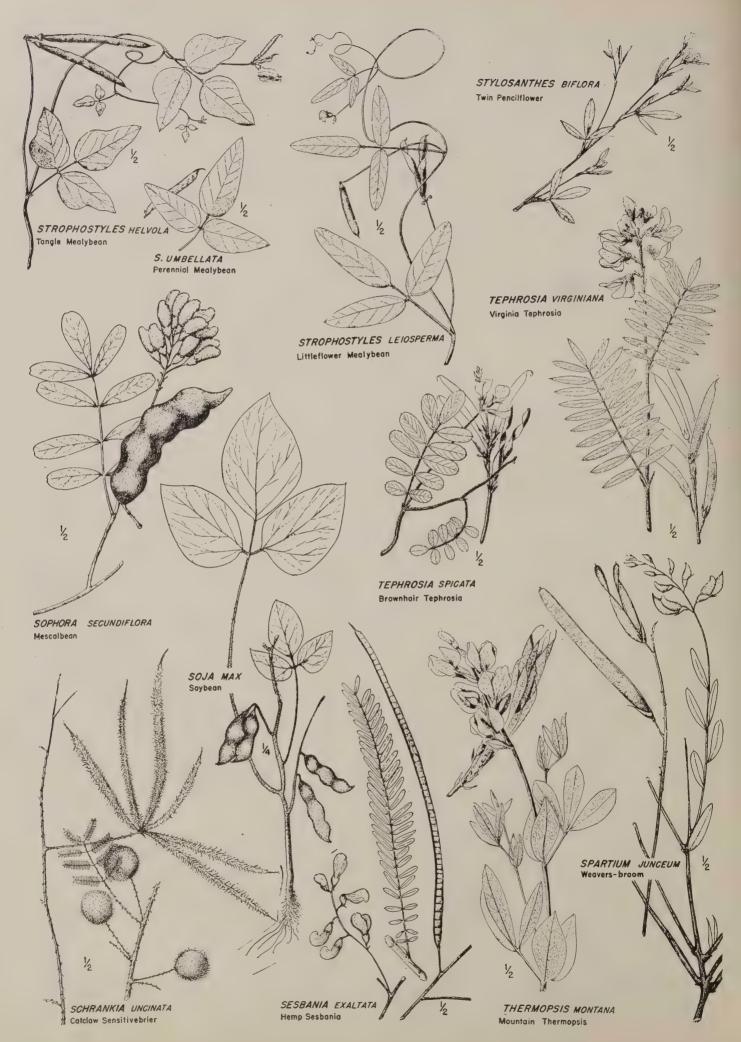


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Description of Legumes

Schrankia uncinata (Willd) (CATCLAW SENSITIVERRIER)—A branched decumbent herbaceous perennial 2 to 4 feet long armed with hooked prickles. It has sensitive bipinate leaves and pink flowers in dense heads. It is also called shame-vine and sensitive-rose and is found in dry soil from Virginia to South Dakota, Florida, and Texas.

to South Dakota, Florida, and Texas.

Sesbania exaltata (Raf) Cory (Hemp Sesbania)—A widely branching herbaceous or somewhat shrubby annual 4 to 12 feet tall, with pinnate leaves and yellowish, purple-spotted flowers. It is also known as danglepod, pea-tree, indigo, Colorado River hemp, sesbania, and long-podded sesban. It occurs in moist soils throughout warmer parts of the Coastal Plain. The woody stems with dangling pods persist throughout the winter.

Soja max (L) Piper (Soybean)—The soybean is an annual bushy plant 2 to 6 feet high, with white or purplish flowers, native of southeastern Asia. It is grown as a summer annual and is also called soya bean, soja bean, Manchurian bean, and, in the South, stock pea. It was introduced into the United States about 1800. More than 100 named varieties are now grown in this country.

country.

Sophora secundiflora (Ortega) Lag (Mescalbean)—An evergreen shrub of Texas and New Mexico with thick pinnate leaves and large spikes of blue flowers. It occurs in rocky, frequently limestone areas usually out of reach of cattle and sheep, to which it is considered poisonous. However, it is apparently nonpalatable.

Spartium juneeum L (Weavers-broom)—A handsome shrub with slender, rushlike green branches, sparse foliage of small simple leaves, and bright yellow flowers in loose terminal racemes. Native to the Mediterranean region, it grows in almost any well-drained, sandy, or rocky situation.

Strophostyles helvola (L) Britt (Tangle

drained, sandy, or rocky situation.

Strophostyles helvola (L) Britt (TANGLE MEALYBEAN)—An annual herbaceous vine with trifoliolate leaves and purplish flowers. It is also called volunteer bean and trailing wild bean and occurs in sandy soils throughout the Eastern States. Although it does not always fruit heavily and will not withstand competition with native species when planted along eroding field borders, when cultivated its growth is so promising that it is being tried as a potential green-manure crop in the Southeast.

Strophostyles leigsperma (LITTLEFLOWER

Strophostyles leiosperma (Littleflower

Strophostyles leiosperma (Littleflower, Mealybean)—A trailing herbaceous annual, with trifoliolate leaves and purplish flowers. It is also called small wild bean and occurs along streams throughout the Central States from South Dakota to Texas.

Stylosanthes biflora (L) BSP (TWIN PENCIFLOWER)—A low wiry-stemmed herbaceous perennial with trifoliolate leaves and yellow flowers. It is much like common lespedeza in habit, and occurs in dry, sandy woodlands throughout the Eastern States.

Tephrosia spicata (Walt) Torr and Gray (Brownhair Tephrosia)—A straggling much-branched slender herbaceous perennial with pinnate leaves and red-purple flowers. It occurs in dry sandy soils of the Coastal Plain from Virginia to Florida and Louisiana.

Tephrosia virginiana (VIRGINIA TEPHROSIA)—An erect or ascending shrublike perennial 1 to 2 feet tall with pinnate leaves and yellowish purple flowers. It is also known as catgut, devil's shoestring, and wild

sweetpea.

Thermopsis—A genus of some 15 to 20 species of perennial herbs native to North America and northern and eastern Asia. A dozen species have been described from the United States. They are frequently called goldenpeas and occur, for the most part, in the Southern Appalachians and Rockies. They are deep-rooted plants that spread by underground rootstocks. This habit, combined with high drought resistance, makes them of potential erosion-control usefulness. They are of practically no value as forage. They are of practically no value as forage. Some species contain a poisonous alkaloid, but no livestock losses have been authenticated. Thermopsis montana Nutt., of the Rocky Mountains, known as mountain thermopsis or mountain goldenpea, is typical of the genus.

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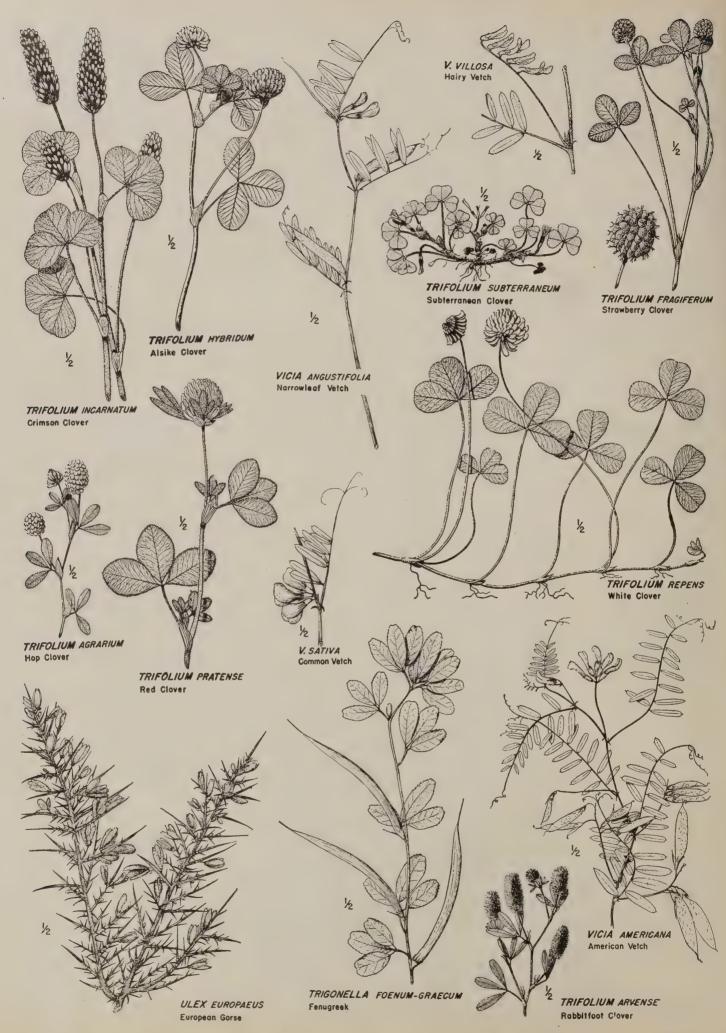
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Description of Legumes

A branched ascending European annual 6 to 18 inches high, with oblong heads of yellow flowers. It is now naturalized throughout the eastern United States except in the extreme south treme south.

Trifolium arvense L (RABBITFOOT CLOVER)—An annual herb 6 to 18 inches high with cylindrical heads of whitish flowers. A native of Eurasia, it is now naturalized throughout the Eastern States. It is also called pussy clover, stone clover, and calf

Trifolium fragiferum L (STRAWBERRY CLOVER)—A European perennial resembling white clover in habit and usefulness. It has become an important plant in lawns and permanent pastures of New Zealand and Australia. In the United States it is used as a pasture plant in the West Coast States, and in the northern Great Plains it is being used locally to reclaim moist meadows rendered alkaline by seepage of irrigation water.

Trifolium hybridum L (Alsike Clover)—A native of Europe, naturalized in the eastern United States. It is a short-lived but very hardy perennial, usually treated in this country as a biennial. The flowers are pinkish or sometimes *white, in globose heads. It serves as a good green-manure crop and is an excellent meadow and pasture plant, often being cut for hay when in full bloom. It is a more certain crop for sour or acid soils than red clover and is well adapted to poorly drained sites.

Trifolium incarnatum L (CRIMSON CLOVER)—A winter annual 1 to 3 feet tall with cylindrical heads of bright crimson showy flowers. A native of southern Europe, it is grown as a green-manure crop in this country along the Atlantic coast from New Jersey southward and in the eastern Cotton Belt. Planted early in the fall, it affords excellent protection to the soil during the winter and may even be lightly grazed; then if turned under in the spring, it serves as an excellent green-manure plant. Grown with small grains and vetch it makes a good spring hay. It is an early source of honey.

Trifolium pratense L (RED CLOVER)—
A biennial, which under favorable conditions carries over a third year. It is usually 1 to 2 feet tall and bears large heads of rosepurple to nearly white flowers. It is a native of Europe but much of the American production comes from numerous forms developed in the United States, where it is now the most important forage crop, grown chiefly for hay but used also for greenmanure and short rotation pastures. In the Northeast it is used with grasses to form manure and short rotation pastures. In the Northeast it is used with grasses to form a vegetative cover in diversion ditches. It is cultivated most extensively in the States east of Nebraska and north of Tennessee and to a lesser extent throughout most of the irrigated Western States excepting the arid Southwest. Mammoth clover is a larger variety (var. perenne Host.), and Orel clover is a more leafy variety (var. foliosum Brand.).

A long-lived shallow-rooted perennial with white flowers in globose heads and creeping branches frequently rooting at the nodes. It is also called honeysuckle clover and Dutch clover. It is native to Europe and Asia and probably to northern United States and Canada as well, although now widely naturalized. There are three common varieties, namely: Common white Dutch; Ladino, which is a mammoth variety; and wild white, which is of most value in England. Ladino clover, in mixture with grasses, is one of the important erosion-control plants for maintaining permanent cover in central one of the important erosion-control plants for maintaining permanent cover in central California deciduous fruit orchards. Its creeping habit makes white clover very desirable for lawns and it has long been one of the best pasture plants.

Trifolium subterraneum L (Subterraneanean clover)—A European annual with prostrate stems up to 1 foot in length; it has white flowers marked with pink, in clus-



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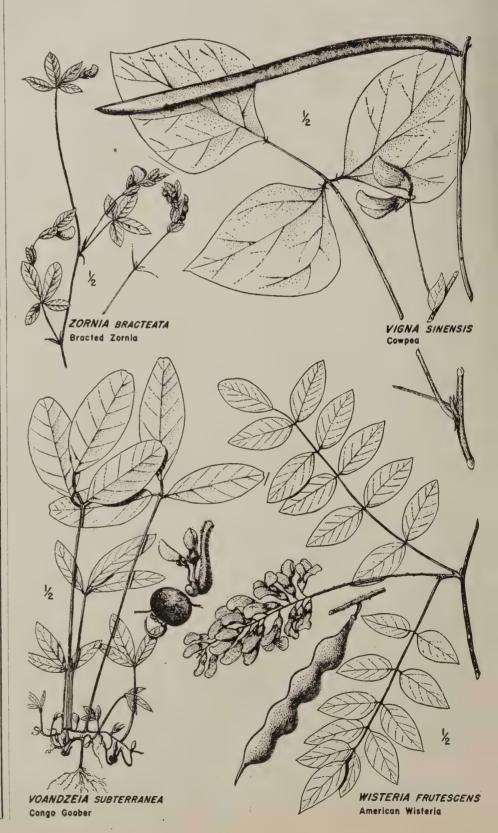
ters of 2 to 7. It is of promise as a winter annual in the Southern States; the plants reseed well but are unable to withstand hot summers even in the Northeast. It is unique among the true clovers in that the ripening heads turn downward and bury themselves under the soil, where the seeds mature. The mat of creeping stems it develops is a good erosion-control device, and the species is now undergoing further trial in this country.

Trigonella foenum-graeeum L (Fenugreeek)—A low Eurasian annual grown as a cover crop and winter green-manure crop in southern California near the coast, espe-

cially in walnut groves. The flowers vary from white or yellowish to bluish in color.

Ulex europaeus L (European Gorse)—A spiny European shrub up to 4 feet in height, also known as furze and whin. It has tiny spine-tipped leaves and showy yellow flowers, which, although nectarless, are used by bees as a source of pollen.

Vicia americana Muhl (AMERICAN VETCH)—A herbaceous perennial vine native to moist sites throughout the United States except the extreme Southeast and Southwest. Its leaves have 8 to 14 leaflets, and the flowers are bluish-purple. Narrow-leaved (var.



linearis Wats.) and truncate-leaved (var. truncata Brew.) varieties, ranging with the species, have been described. Unlike most native vetches, which do not withstand grazing well, this is considered a useful forage plant.

Vicia angustifolia Reich (Narrowleaf Vetch)—A slender annual vine introduced from Europe, but naturalized throughout most of the Eastern States. The leaves have 4 to 16 leaflets, and the flowers are purple. The common form of the plant in the South is a strain called Augusta vetch, much used as a winter cover and green-manure crop. It is used as a pasture plant in Georgia, where it maintains itself by heavy reseeding year after year. To a limited extent it has been employed to control erosion on productive field borders in the Southeast.

Vicia sativa L (Common vetch)—A vining Eurasian annual with stems 3 to 5 feet long, also called English or smooth vetch and tare. There are many crop forms. The leaves have about 14 leaflets; the violet-purple to white flowers are usually in pairs on a very short stalk. It thrives in well-drained loamy soils and is a good soil improver. Thorough inoculation is necessary to produce a good stand on poor soil. Requiring a cool growing season, it is grown as a hay and silage crop in the Northwest and as a winter cover and green-manure crop in California, where it is also a seed crop of commercial importance.

Vicia villosa Roth (HAIRY VETCH)—A slender twining European annual, often behaving as a biennial, with stems up to 12 feet in length. It is very hairy, the leaves have 11 to 17 leaflets, and the blue-violet, rarely white, flowers are borne in long one-sided clusters. It is also known as sand vetch, villose vetch, Russian vetch, and winter vetch. It grows in a variety of soils, even clays, will resist more alkali than most legumes, and is markedly drought-resistant. Its chief uses are for hay, pasture, and

This edition of SEED TRADE BUYERS GUIDE does not contain illustrations and descriptions of weeds as in previous editions. It was thought advisable to discontinue this feature for the present, and until new material is available. We are at present working on an entirely new series for presentation in a later edition.—Ed.

silage. Because of its weak stems it is usually sown with a supporting crop of small grain. Adapted to a wide range of climatic conditions, but especially cold-resistant, it is mostly grown as a winter cover and greenmanure crop.

Vigna sinensis (Cowpea)—An annual more like a bean than a pea, with broad leaflets and long slender pods. Probably native to central Africa, it is now extensively cultivated throughout the southeastern

United States and California. It is particularly valuable on poor, sandy soils and is grown for seed, hay, ensilage, and green feed. Its soil conservation value includes use as a cover and pasture plant and greenmanure crop. In the warm humid parts of the Southeast only mildew-resistant varieties, such as Iron and Brabham, should be planted for wildlife, for which the seeds are usually available until midwinter.

Vondzela subterranea (Congo goober)
—An African herb, with prostrate stems, from which arise upright trifoliolate leaves and small bright yellow flowers borne close to the ground. It has been sparingly grown in southern gardens for some time, and, like the peanut, buries its fruit underground before it ripens. It is widely cultivated by the natives of central Africa for its edible seed and is called Bambarra groundnut, hogpeanut, and goober.

Wisteria — A genus containing half a dozen species of stout woody vines native to China, Japan, and eastern North America. They have compound leaves with 9 to 19 leaflets and long drooping clusters of purplish, blue, or white flowers. Japanese wisteria, W. floribunda D.C., native to Japan, is commonly cultivated as an ornamental in the United States and is considered one of the most attractive woody vines for temperate regions. Two species with lilac-purple flowers are native to the United States, namely, W. frutescens (L.) Poir. (W. speciosa Nutt.), the American wisteria of the South Central and Southeastern States, and W. macrostachya Torr. and Gray, the Kentucky wisteria of the South Central United States.

Zornia bracteata (Bracted Zornia)—A perennial herb, with spreading or prostrate branches up to 3 feet in length, 2- to 4-foliolate leaves and yellow flowers in axillary or terminal bracted spikes. It occurs in sandy soil from Virginia to Florida, west to Texas.

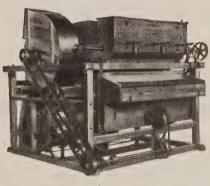


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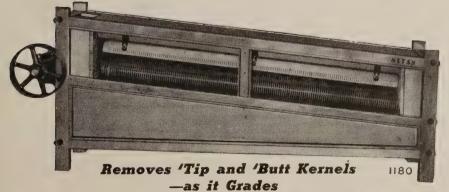
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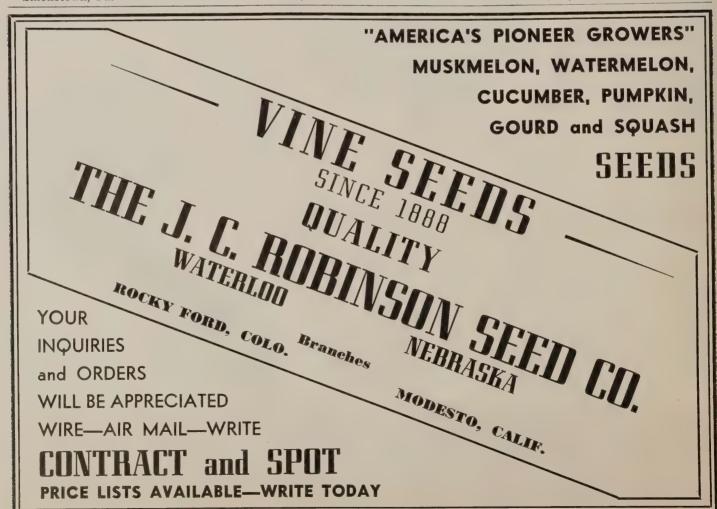
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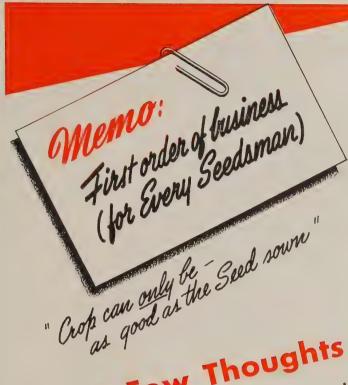
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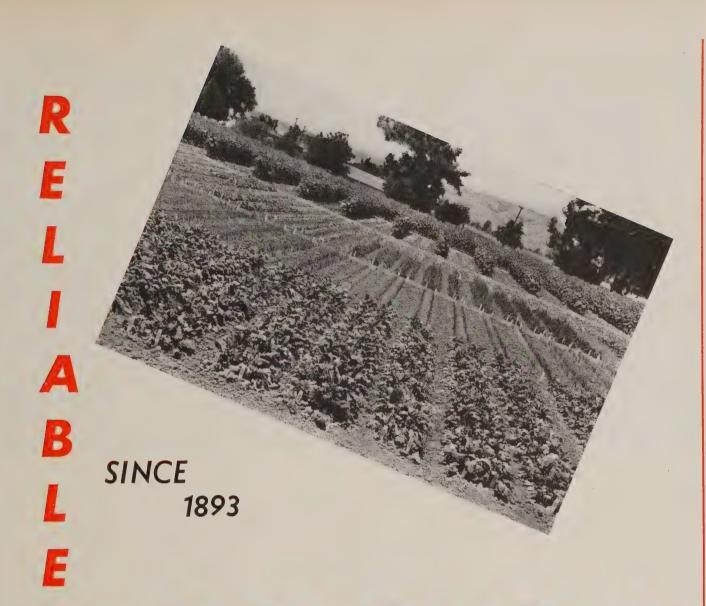
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Spanish	Anis	Alcancil	Fenarrago	Toroniil	Albohaca	Denete	. Foroto	. Haba	.Remolacha	.Borraja	.Broculi	.Col de Bruselas	.Repollo		.Repollo Crispo	. Alcaravea	. Cardo	. Zanahoria	.Coliflor		.Apio-rabo	. Perifolio	. Achicoria		Achicoria de raiz.	.Cebollino	. Especie de Berza.	.Coriandro	. Canonigo	Maiz	. Maiz dulce	. Lepidio	. Derro	Daning	Amargon	Final gon	Rereniene	. Dei enijena	Fecarola	Hinoio	Aio	Calabaza		. Taramayo	Hisono	· · · · · · · · · · · · · · · · · · ·
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	Squash	. Ecraser	.Kurbiss	.Zapallo	.Zucca
la	Sweet Potato	.Potate douce	.Susse-Batata	. Batata	. Patata dolce
	Swiss Chard	Poirée ou Bette	. Beete (Mangold) .		Bista
	Thyme	. Thym	.Thymian	.Tomillo	Timo
	Tomato	.Tomates	.Tomaten	.Tomate	. Pomodoro
	Turnip, Garden	.Navets Potagers	Speise-Rüben	.Nabo	. Kapa di cucina
	Turnip, Field	. Navet Fourragers.	.Fitterrüben		Papa di forragio
	Watermelon	.Melon d'eau	. Wasser-Melonen .	Sandia	. Moschata

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STOCKTON

CALIFORNIA

Seed Germination Table

Prepared by Agricultural Marketing Service, U. S. Department of Agriculture, Washington, D. C.

	Pr	epared	by Ag	ricultu	ral Marketing Service, U. S.	. Department of Agriculture, Washin	900101 250	1		 	
Name of seed			First		Remarks	Name of seed	Sub- strata			Final count	
Alfalfa—Medicago sativa Bahia grass—Paspalum notatum	B, S P	° C. 20 20-35	Days 3 7	Days 7 90	Light; potassium nitrate; prechill fresh seed for 4 weeks at 5° C. ²	Redtop—Agrostis alba	TB, P	° C. 20-30 20-30 20-30	Days 5 5 7	Days 10 21 35	Light. Light; fresh seed potassium nitrate. Light; fresh seed potas-
Barley-Hordeum vulgare	T, S	20	3	7	Fresh seed prechill 5 days at 5° or 10° C.						sium nitrate and 15- 25° C.
Bean, field—Phaseolus vulgaris Bean, velvet—Stizolobium utile	R,S	20-30	5 3	8 14		Rhodes grass—Chloris gayana Rice—Ory:a sativa	B, T	20-30 20-30 20	6 3 3	10 7	Light.
Bean, Mung—Phaseolus aureus Beet, field (not sugar) — Beta	R, S B	20-30 20-30	3	7 14	Soak in water 2 hours	Rye—Secale Cereule	T, S P,TB	20-30	5	14	Light; fresh seed potas-
vulgari					before testing. Wash in running water after soaking.	Italian—Lolium multiflorum Perennial—Lolium perenne		20-30	5	14	sium nitrate. Light.
Bentgrass:					atter soaking.	Sainfoin—Onobrychis viciaefolia Sorghum:	В	20-30	4	10	
Creeping (seaside): Agrostis palustris Highland:	P	20-30	7	28	Light; potassium nitrate.	Grain—Sorghum vulgare Sweet (sorgo)—Sorghum vul-	B, S B, S	20-30 20-30	3 3	10	Fresh seed prechill at 5° or 10° C. for 5 days.
Agrostis tenuis var	P	20-30 20-30	7 7 7	28 21	Do. Do.	Soybean—Soja max	RT,S	20-30 20-30	5 3	8	
Bermuda grass—Cynodon dactyton. Bluegrass:		20-35	_	21	Do. Light.	Sudan grass—Sorghum vulgare su- danese. Sweet vernalgrass—Anthoxanthum		20-30	6	14	Light.
Annual—Poa annua	. P	20-30 20-30 20-30	7 7 7	28 28	Light; potassium nitrate. Light.	odoratum. Timothy—Phleum pratense		20-30	5	10	Light; fresh seed potas-
Kentucky—Poa pratensis Rough—Poa trivialis Wood—Poa nemoralis	. P	20-30 20-30	7 7	21 28	Do. Do.	Velvetgrass-Holcus lanatus	P	20-30	6	14	
Bluestem—Agropyron smithii	. P	20-30	7	35	Light; fresh seed potas- sium nitrate and 15° C.	Vetch: Common—Vicia sativa Hairy—Vicia villosa	T	20 20	3 3		
Brome, smooth—Bromus inermis.	P,TB	20-30	6	14	Light.	Hungarian—Vicia pannonica Monantha—Vicia monantha.	T	20 20	3 3	10	
Broomcorn—Sorghum vulgare tech nicus Buckwheat—Fagopyrum vulgare	. B, S	20-30 20-30	3 3			Narrowleaf—Vicia angustifolu Purple—Vicia atropurpurea.	4 I	20 20 20	3 4	10	
Carpet grass—Axonopus compres- sus.	1	20-35	10	1	Light.	Woolypod—Vicia dasycarpa. Wheat: Common—spelt and emme		20	3		Fresh seed prechill at 5°
Chickpea—Cicer arietinum Clovers:		20-30	3			Triticum aestivum. Durum—Triticum aestivum		20	3	1	or 10° C. for 5 days. Fresh seed prechill at 5°
Alsike—Trifolium hybridum. Berseem— Trifolium alexandr num.		20	3	7		Wheatgrass:		20-30	5	14	or 10° C. for 5 days. Light; fresh seed 15° C.
Bur—Medicago arabica an Medicago hispida.	1	20	4	1		Crested—Agropyron cristatum Slender—Agropyron pauciflor	P,TB				Light.
Crimson—Trifolium incarno		20	3			um. VEGETABLES AND HERBS					
Persian—Trifolium resupine tum. Red—Trifolium pratense		20	3	7		Artichoke—Cynara scolymus	T	20-30		2 2	
Sour-Melilotus indica Strawberry-Trifolium frag	. B	20 20		14		Asparagus—Asparagus officinalis. Beans: Garden—Phaseolus vulgaris		20-30	1		8 Watch for "baldhead"
ferum. Subterrapean—Trifolium su		20	4	14	Fresh seed 15° C.	Horse or broad—Vicia faba	S	20	. 4	1 1	and other injuries.
terraneum. Suckling—Trifolium dubium Sweet—Melilotus alba an	B S. B	20 20				Lima—Phaseolus lunatus	R, S			5 1	Watch for "baldhead" and other injuries. Soak in water 2 hours
Melilotus officinalis. White—Trifolium repens	1 - 0		3			Beet, Swiss chard and mangel- Beta vulgaris.	- В	20-30	' '		before testing. Wash in running water after
Cotton—Gossypium hirsutum					test.8 Watch for weevil injury	Brassica oleracea varieties: Ca	b- B	20-3	0 3	3 1	o soaking.
Cowpeas—Vigna sinensis Corn, field—Zea mays	R. S	20-30	0	4	to plumule.	bage, collards, kale, brusse sprouts, cauliflower, brocco and kohlrabi.	lsl				
Corn, pop—Zea mays everta Crested dogtail—Cynosurus cr	is- R, S	20-3		$\begin{bmatrix} 4 \\ 0 \end{bmatrix}$ 2	Light; fresh seed pre- chill for 3 days at 5°	Carrot—Daucus carota Celeriac—Apium graveolens, ve	_ B_	20-3 20-3		$\begin{bmatrix} 6 & 2 \\ 0 & 2 \end{bmatrix}$	28 21 Light.
tatus. Crotalaria—Crotalaria intermed	lia B. S	20-3	0	3 1	or 10° C.	rapaceum. Celery—Celeri araneolens var. duli	e. B.T.	3 20-3			Light Light; potassium nitrate
and C. spectabilis. Dallis grass—Paspalum dilatatus		20-3	5	7 2	Light; fresh seed potas-	Chicory—Cichorium intybus Citron—Citrullus vulgaris	T	20-3	0	7 1	or soil.
Fescue: Hair—Festuca capillata		10-2	5 1	0 2		Corn, sweet—Zea mays Cornsalad—Fetticus—Valeriane	R, S	3 20-3	0	4	7 28 Fresh seed 10° or 15° C.
Meadow—Festuca elatior	P	20-3 15-2	0	5 1 2	1	locusta var. olitoria. Cress: Garden—Lepidium sativum.	В	2	0	4	10
Flax—Linum usitatissimum	m. TB	20-3 20-3 20-3	0 1	0 2	7 8 4	Water—Roripa nasturtiu aguaticum.	m- P	2	- I		10
Kudzu—Pueraria thunbergiana. Lespedeza: Chinese—Lespedeza sericea.	В,	S 20-3		7 2	8	Cucumber—Cucumis sativus Dandelion—Leontodon taraxacum	ı TE	3 2	80 80 80		21 14
Common—Lespedeza striata Korean—Lespedeza stipulac	ea. B	20-3	35 35 20	5	4 4 11 11 12 13 14 15 15 15 15 15 15 15	Fggplant—Solanum melongena v esculentum. Endive—Cichorium endivia					14 Light; potassium nitrate
Lupine—Lupinus luteus Meadow foxtail—Alopecurus p tensis.		20-3		7	Light.	Leek-Allium porrum	В		20	6 3	or soil. 14 5 Light for ½ hour; fresh
Medick, black—Medicago lupuli Millet:			20	3 4	7	Lettuce—Lactuca sativa					seed prechill at 10° or 15° C. for 3 days.
Browntop—Panicum fasce latum. Foxtail, German, Hungar			- 1	1	10	Muskmelon—Cucumis melo Mustard—India, Brassica junce	a. B, T	S 20- 20-		3	7 Light; fresh seed potas- sium nitrate and pre-
or Golden—Setaria itali Japanese—Echinochloa c	ca	- 1		4	10						chill at 10° C. for 3 days.
galli frumentacea. Pearl—Pennisetum glaucu	m E	20-		3	7 7	Okra—Hibiscus esculentum Onion—Allium cepa	B,	S	20	5	21 14 22
Proso—Panicum miliaceum Molasses grass—Melinis minutifl Napier grass—Pennisetum	ora. F	20-	30		21 Light. 10	Parsley—Petroselinum hortense. Parsnip—Pastinaca saliva	E	3 20-		11 6	28 28 8
pureum. Oats—Avena sativa			20	4	Fresh seed prechill fo 5 days at 5° or 10° (Peas, garden—Pisum sativum Pepper—Capsicum spp Pumpkin—Cucurbita nevo	$[\mathbf{T}]$	B 20- S 20-	30	6 5 6 4	14 7 6
Oatgrass, tall—Arrhenatherum		20-	30	6	14 Light.	Radish—Raphanus sativus Rhubarb—Rheum rhaponticum	T	S 20	20 -30	4 3 7 3 5	6 21 Light.
Orchard grass—Dactylis glomer	rata. S.	P 20-	-30	7	18 Germination more rapi in soil; light on Peti dish tests.	d Rutabaga—Brassica napobrass	ica. I	20	-30 20	5	10 Fresh seed prechill a 10° C. for 3 days.
Peas, field—Pisum sativium arv	ense R	S	20	3 3	8 7	Sorrel—Rumex acetosa		-	-30	3	14 Light.
Rape—Brassica napus Substrata: B=between ble		D 4	of blo	ttame:	T-paper toweling: R=rolle	Common—Spinacea olerac New Zealand—Tetragonia	ex-	_	10 -30	5	21 28 Not too wet.
towel test; S = soil or sand; 15	=top or	SOII; I	- peur	district	tomoling	Squash—Cucurbita sp	T,		-30	4	7
Treatment with approxima cause seed to grow at 20-35 lig	ht with	out pre	chillin	g or p	tassium nitrate. Time limit	ts Common—Lycopersicon culentum Husk—Physalis pubescens	es-]		-30	5	14 28 Light.
"Prewet" method on cotton	n; shake	seed in	a clos	ed con	tainer, thoroughly wetting the n to germinate. If the prewe	le Husk—Physairs pubescens	Р,		30 30 3-30	5 7 3 4	28 Light.
test is higher report both it a	nd the s	tandard	l germ	inatio	1.	Watermelon—Curumus valyari		, ~ , ~			

SEED TRADE

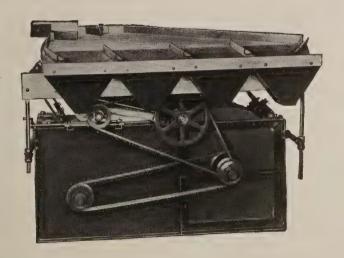
¹Substrata: B=between blotters; TB=top of blotters; T=paper toweling; R=rolled towel test; S=soil or sand; TS=top of soil; P=petri dishes with 2 thicknesses of blotters or 1 thickness of absorbent cotton or 5 thicknesses of paper toweling.
¹Treatment with approximately (75 percent) sulfuric acid from 45 to 90 minutes will cause seed to grow at 20-35 light without prechilling or potassium nitrate. Time limits for treatment vary with thickness of glumes on individual sample.
¹'Prewet' method on cotton; shake seed in a closed container, thoroughly wetting the "fuzz" of the seed. Blot off all excess moisture and put in to germinate. If the prewet test is higher report both it and the standard germination.

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TOLERANCE TABLES TO BE USED IN CONNECTION WITH THE ENFORCEMENT OF THE FEDERAL SEED ACT

(Seedsmen should remember that the tolerances are not for the purpose of permitting labeling to show higher quality than is actually found by test. The tolerances are provided to take care of the unavoidable variation in the results of tests and difficulty in bringing seed to uniform quality. It would be the part of wisdom to label the seed as indicated by test and certainly not to show higher quality than is indicated by test. There are numerous indications that seedsmen are applying the tolerance to the results of tests when labeling seed for shipment in interstate commerce. This is certain to lead to difficulty. The seedsman will need the protection of the tolerance if he labels the seed on the basis of the results of a test. If the tolerance is applied prior to labeling the seed, the seedsman in effect deprives himself of the protection of the tolerance.)

TABLE OF TOLERANCE FOR PURE SEED VARIATIONS FOR OTHER THAN CERTAIN CHAFFY GRASSES

Value %	.00	.10	.20	.30	.40	.50	.60	.70	.80	.90	Value %
100 99 98 97 96	.60 .79 .99 1.18 1.36	.77 .97 1.16 1.34	.75 .95 1.14 1.33	.73 .93 1.12 1.31	.71 .91 1.10 1.29	.69 .89 1.08 1.27	.67 .87 1.06 1.25	.65 .85 1.05 1.23	.63 .83 1.04 1.21	.61 .81 1.01 1.20	100 99 98 97 96
95	1.55	1.52	1.50	1.48	1.46	1.45	1.44	1.42	1.40	1.38	95
94	1.72	1.71	1.69	1.67	1.65	1.63	1.62	1.60	1.58	1.56	94
93	1.90	1.88	1.86	1.85	1.83	1.81	1.79	1.78	1.76	1.74	93
92	2.07	2.05	2.03	2.02	2.00	1.98	1.96	1.95	1.93	1.91	92
91	2.23	2.22	2.20	2.18	2.17	2.15	2.13	2.12	2.10	2.08	91
90	2.40	2.38	2.36	2.35	2.33	2.31	2.30	2.28	2.27	2.25	90
89	2.55	2.54	2.52	2.51	2.49	2.47	2.46	2.44	2.43	2.41	89
88	2.71	2.67	2.68	2.66	2.65	2.63	2.62	2.60	2.58	2.57	88
87	2.86	2.84	2.83	2.81	2.80	2.78	2.77	2.75	2.74	2.72	87
86	3.00	2.99	2.97	2.96	2.95	2.92	2.92	2.90	2.89	2.87	86
85	3.15	3.13	3.12	3.10	3.09	3.07	3.06	3.05	3.03	3.02	85
84	3.28	3.27	3.26	3.24	3.23	3.21	3.20	3.19	3.17	3.16	84
83	3.42	3.40	3.39	3.38	3.36	3.35	3.34	3.32	3.31	3.30	83
82	3.55	3.53	3.52	3.51	3.50	3.48	3.47	3.46	3.44	3.43	82
81	3.67	3.66	3.65	3.64	3.62	3.61	3.60	3.59	3.57	3.56	81
80	3.80	3.78	3.77	3.76	3.75	3.73	3.72	3.71	3.70	3.68	80
79	3.91	3.90	3.89	3.88	3.87	3.85	3.84	3.83	3.82	3.81	79
78	4.03	4.02	4.00	3.99	3.98	3.97	3.96	3.95	3.94	3.92	78
77	4.14	4.13	4.12	4.10	4.09	4.08	4.07	4.06	4.05	4.04	77
76	4.24	4.23	4.22	4.21	4.20	4.19	4.18	4.17	4.16	4.15	76
75	4.35	4.33	4.32	4.31	4.30	4.29	4.28	4.27	4.26	4.25	75
74	4.44	4.43	4.42	4.41	4.40	4.39	4.38	4.37	4.36	4.35	74
73	4.54	4.53	4.52	4.51	4.50	4.49	4.48	4.47	4.46	4.45	73
72	4.63	4.62	4.61	4.60	4.59	4.58	4.57	4.56	4.56	4.55	72
71	4.71	4.70	4.70	4.69	4.68	4.67	4.66	4.65	4.64	4.64	71
70	4.80	4.79	4.78	4.77	4.76	4.75	4.75	4.74	4.73	4.72	70
69	4.87	4.87	4.86	4.85	4.84	4.83	4.83	4.82	4.81	4.80	69
68	4.95	4.94	4.93	4.93	4.92	4.91	4.90	4.90	4.89	4.88	68
67	5.02	5.01	5.00	5.00	4.99	4.98	4.98	4.97	4.96	4.95	67
66	5.08	5.08	5.07	5.06	5.06	5.05	5.04	5.04	5.03	5.02	66
65	5.15	5.14	5.13	5.13	5.12	5.11	5.11	5.10	5.10	5.09	65
64	5.20	5.20	5.19	5.19	5.18	5.17	5.17	5.16	5.16	5.15	64
63	5.26	5.25	5.25	5.24	5.24	5.23	5.23	5.22	5.21	5.21	63
62	5.31	5.30	5.30	5.29	5.29	5.28	5.28	5.27	5.27	5.26	62
61	5.35	5.35	5.34	5.34	5.34	5.33	5.33	5.32	5.32	5.31	61
60	5.40	5.39	5.39	5.38	5.38	5.37	5.37	5.37	5.36	5.36	60
59	5.43	5.43	5.43	5.42	5.42	5.41	5.41	5.41	5.40	5.40	59
58	5.47	5.46	5.46	5.46	5.45	5.45	5.45	5.44	5.44	5.44	58
57	5.50	5.49	5.49	5.49	5.49	5.48	5.48	5.48	5.47	5.47	57
56	5.52	5.52	5.52	5.52	5.51	5.51	5.51	5.51	5.50	5.50	56
55	5.55	5.54	5.54	5.54	5.54	5.53	5.53	5.53	5.53	5.53	55
54	5.56	5.56	5.56	5.56	5.56	5.55	5.55	5.55	5.55	5.55	54
53	5.58	5.58	5.57	5.57	5.57	5.57	5.57	5.57	5.57	5.56	53
52	5.59	5.59	5.59	5.58	5.58	5.58	5.58	5.58	5.58	5.58	52
51	5.59	5.59	5.59	5.59	5.59	5.59	5.59	5.59	5.59	5.59	51
50	5.60	5.59	5.59	5.59	5.59	5.59	5.59	5.59	5.59	5.59	50

The tolerance for pure seed on purity less than 50% is the same as the tolerance for the larger part of the difference between the purity and 100%.

Example: If the purity test is 96.40% use the table in this manner: Find 96 in the "Value" column, then the .40 at top of table. These two intersect at 1.29. Therefore the tolerance allowed would be 1.29%.



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Two Long Profit Red Arrow Assortments

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DEALER PROFIT, \$5.00 92% Actual Mark-up

ASSORTMENT No. 780

CONSISTS OF: Dealer Cost For 48 Bottles, 4-oz. (\$1) \$32.00 \$48.00 12 Bottles, 4-oz. (\$1) Free TOTAL \$32.00 \$60.00

DEALER PROFIT, \$28.00 87½% Actual Mark-up

Red Arrow Garden Spray

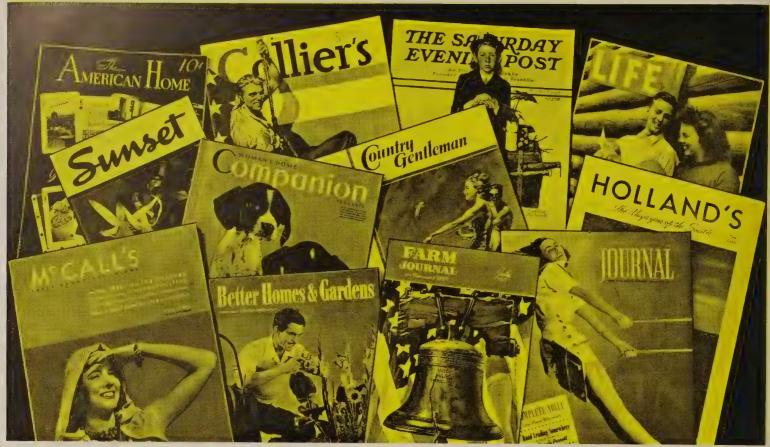
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The Only Insecticide Most Home Gardeners Need

SIZE	How Packed, per Case	Shipping Weight, per Case	List Prices to Dealers	Suggested Retail Prices
1-Oz. Bottle	1 Doz.	3 lbs.	\$2.70 Doz.	\$.35 Each
4-Oz. Bottle	1 Doz.	8 lbs.	8.00 Doz.	1.00 Each
1-Pt. Bottle	1 Doz.	25 lbs.	22.70 Doz.	2.85 Each
1-Qt. Bottle	1 Doz.	46 lbs.	3.35 Each	5.00 Each
1-Gal. Bottle	1 Only	13 lbs.	10.70 Gal.	16.00 Gal.
6 1-Gal. Bottles	½ Doz.	81 lbs.	10.35 Gal.	15.50 Gal.
5-Gal. Can	1 Only	70 lbs.	9.50 Gal.	14.00 Gal

SEE NEXT PAGE FOR MORE INFORMATION

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Woman's Home Companion, McCall's, Farm Journal & Farmer's Wife, Holland's, Sunset, and Country Gentleman—reaching a total circulation of more than 28,000,000 homes. This Red Arrow advertising—constantly helping sell Red Arrow in every community and every neighborhood—makes it good business for you to keep Red Arrow well displayed throughout the garden season.

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"SPECIAL" RED ARROW SPRAY

An extra high-powered pyrethrum spray for control of leaf tyers, leaf rollers, Jap beetles and sod web worms.



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A compound pyrethrum dust for use in greenhouses on flowers, vegetables, small fruits, etc.



RED ARROW GARDEN DUST

Controls many varietes of sucking and chewing insects. Contains 34% Rotenone and 30% wettable sulphur.



McCORMICK'S ROTENONE DUST

\%4\% Rotenone plus other extractives of Rotenone-bearing powder. A substitute for arsenicals on many fruits and vegetables.

ROTENONE GREENHOUSE SPRAY

Controls Spider Mites and many other types of insects, under glass and outdoors. Contains $1\frac{1}{2}\%$ Rotenone, other Derris Extractives and special wetting agent.

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Kills fleas and lice on dogs and cats—leaves the coat clean, soft and glossy.

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Made from active derris derivatives with a clay base for the control of fleas and lice on animals.

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THE McCORMICK SALES COMPANY BALTIMORE, MARYLAND

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TABLE OF TOLERANCE FOR WEED SEEDS, OTHER CROP SEED, AND INERT MATTER FOR OTHER THAN CERTAIN CHAFFY GRASSES

Value %	.00	.10	.20	.30	.40	.50	.60	.70	.80	.90	Value %
0	.20	.21	.23	.25	.27	.29	.31	.33	.35	.37	0
1	.39	.41	.43	.45	.47	.49	.51	.53	.55	.57	1
2	.59	.61	.63	.65	.66	.68	.70	.72	.74	.76	2
3	.78	.80	.81	.83	.85	.87	.89	.91	.93	.94	3
4	.96	.98	1.00	1.02	1.04	1.05	1.06	.1.08	1.10	1.12	4
5	1.15	1.16	1.18	1.20	1.22	1.23	1.25	.1.27	1.29	1.31	5
6 7 8 9	1.32 1.50 1.67 1.83 2.00	1.34 1.51 1.68 1.85 2.01	1.36 1.53 1.70 1.87 2.03	1.38 1.55 1.72 1.88 2.04	1.39 1.56 1.73 1.90 2.06	1.41 1.58 1.75 1.91 2.07	1.43 1.60 1.77 1.93 2.09	1.45 1.62 1.78 1.95 2.11	1.46 1.63 1.80 1.96 2.12	1.48 1.65 1.82 1.98 2.14	6 7 8 9 10
11	2.15	2.17	2.18	2.20	2.22	2.23	2.25	2.26	2.28	2.29	11
12	2.31	2.32	2.34	2.35	2.37	2.38	2.40	2.41	2.43	2.44	12
13	2.46	2.47	2.49	2.50	2.52	2.53	2.55	2.56	2.57	2.59	13
14	2.60	2.62	2.63	2.65	2.66	2.67	2.69	2.70	2.72	2.73	14
15	2.75	2.76	2.77	2.79	2.80	2.81	2.83	2.84	2.86	2.87	15
16	2.88	2.90	2.91	2.92	2.94	2.95	2.96	2.98	2.89	3.00	16
17	3.02	3.03	3.04	3.06	3.07	3.08	3.10	3.11	3.12	3.13	17
18	3.15	3.16	3.17	3.19	3.20	3.21	3.22	3.24	3.25	3.26	18
19	3.27	3.28	3.30	3.31	3.32	3.33	3.35	3.36	3.37	3.38	19
20	3.40	3.41	3.42	3.43	3.44	3.45	3.47	3.48	3.49	3.50	20
21	3.51	3.52	3.54	3.55	3.56	3.57	3.58	3.59	3.60	3.62	21
22	3.63	3.64	3.65	3.66	3.67	3.68	3.69	3.70	3.72	3.73	22
23	3.74	3.75	3.76	3.77	3.78	3.79	3.80	3.81	3.82	3.83	23
24	3.84	3.85	3.86	3.87	3.88	3.89	3.90	3.91	3.92	3.93	24
25	3.95	3.95	3.96	3.97	3.98	3.99	4.00	4.01	4.02	4.03	25
26	4.04	4.05	4.06	4.07	4.08	4.09	4.10	4.11	4.12	4.13	26
27	4.14	4.15	4.16	4.16	4.17	4.18	4.19	4.20	4.21	4.22	27
28	4.23	4.24	4.24	4.25	4.26	4.27	4.28	4.29	4.30	4.30	28
29	4.31	4.32	4.33	4.34	4.35	4.35	4.36	4.37	4.38	4.39	29
30	4.40	4.40	4.41	4.42	4.43	4.43	4.44	4.45	4.46	4.47	30
31	4.47	4.48	4.49	4.50	4.50	4.51	4.52	4.53	4.53	4.54	31
32	4.55	4.55	4.56	4.57	4.58	4.58	4.59	4.60	4.60	4.61	32
33	4.62	4.62	4.63	4.64	4.64	4.65	4.66	4.66	4.67	4.68	33
34	4.68	4.69	4.70	4.70	4.71	4.71	4.72	4.73	4.73	4.74	34
35	4.75	4.75	4.76	4.76	4.77	4.77	4.78	4.79	4.79	4.80	35
36	4.80	4.81	4.81	4.82	4.83	4.83	4.84	4.84	4.85	4.85	36
37	4.86	4.86	4.87	4.87	4.88	4.88	4.89	4.89	4.90	4.90	37
38	4.91	4.91	4.92	4.92	4.93	4.93	4.94	4.94	4.94	4.95	38
39	4.95	4.96	4.96	4.97	4.97	4.97	4.98	4.98	4.99	4.99	39
40	5.00	5.00	5.00	5.00	5.01	5.01	5.02	5.02	5.03	5.03	40

Example—If the sample tested shows 4.40% of weed seeds, other crop seeds and inert matter, the tolerance is computed as follows: Find 4 in the "value" column, then .40 at top of table. These two intersect at 1.04; hence the tolerance is 1.04%.

Table of Tolerance for Inert Matter, Weed Seed, and Crop Seed for the following: Poa spp., Argostis spp. Festuca spp., bromegrass, crested wheatgrass, orchard grass, velvet grass, tall oatgrass, meadow foxtail, sweet vernalgrass, Rhodes grass, Dallis grass, carpet grass and Bermuda grass, and mixtures containing these seeds singly or combined in excess of 50%

Value %	.00	.10	.20	.30	.40	.50	.60	.70	.80	.90	Value %
0	.20	.21	.23	.25	.27	.29	.31	,33	.35	.37	0
1	.39	.41	.43	.45	.47	.49	.51	.53	.55	.58	1
2	.60	.62	.64	.66	.67	.69	.71	.73	.76	.78	2
3	.80	.82	.83	.85	.87	.90	.92	.94	.96	.97	3
4	.99	1.02	1.04	1.06	1.08	1.09	1.10	1.13	1.15	1.17	4
5	1.20	1.21	1.24	1.26	1.28	1.29	1.31	1.33	1.35	1.37	5
6	1.39	1.42	1.44	1.46	1.47	1.50	1.52	1.54	1.55	1.58	6
7	1.60	1.61	1.64	1.66	1.67	1.69	1.72	1.74	1.75	1.78	7
8	1.80	1.81	1.83	1.86	1.87	1.89	1.92	1.93	1.95	1.98	8
9	1.99	2.01	2.04	2.06	2.07	2.09	2.11	2.13	2.15	2.17	Q
10	2,20	2.21	2.23	2.25	2.27	2.28	2.31	2,33	2.34	2.37	10
10	2.38	2.41	2.42	2.44	2.47	2.48	2.51	2.52	2.54	2.56	11
11	2.58	2.60	2.62	2.63	2.66	2.67	2.70	2.71	2.74	2.75	12
12	2.77	2.79	2.81	2.83	2.85	2.87	2.89	2.91	2.92	2.95	13
13		2.79	3.00	3.03	3.04	3.05	3.07	3.09	3.12	3.13	14
14	2.96		3.19	3.03	3.23	3.24	3.26	3.28	3.29	3.32	15
15	3.16	3.17	5.19	5.41	0.40	5.24	0.20	0.20			

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Value %	.00	.10	.20	.30	.40	.50	.60	.70	.80	.90	Value %
16	3.34	3.36	3.38	3.39	3.42	3.43	3.45	3.47	3.49	3.50	16
17	3.53	3.54	3.56	3.58	3.60	3.61	3.64	3.66	3.67	3.69	17
18	3.71	3.73	3.74	3.77	3.78	3.80	3.81	3.84	3.86	3.87	18
19	3.89	3.90	3.93	3.94	3.96	3.97	4.00	4.02	4.03	4.05	19
20	4.08	4.09	4.11	4.12	4.14	4.15	4.18	4.20	4.21	4.23	20
21	4.24	4.26	4.29	4.30	4.32	4.33	4.35	4.36	4,38	4.41	21
22	4.42	4.44	4.46	4.47	4.49	4.50	4.52	4.53	4.56	4.58	22
23	4.60	4.61	4.63	4.64	4.66	4.68	4.69	4.71	4.72	4.74	23
24	4.76	4.77	4.79	4.81	4.82	4.84	4.85	4.87	4.89	4.90	24
25	4.93	4.94	4.95	4.97	4.99	5.00	5.02	5.04	5.05	5.07	25
26	5.09	5.10	5.12	5.14	5.15	5.17	5.19	5.20	5.22	5.24	26
27	5.25	5.27	5.29	5.29	5.31	5.32	5.34	5.36	5.38	5.39	27
28	5.41	5.43	5.43	5.45	5.46	5.48	5.50	5.53	5.53	5.54	28
29	5.55	5.57	5.59	5.61	5.62	5.63	5.65	5.66	5.68	5.70	29
30	5.72	5.72	5.74	5.75	5.77	5.78	5.79	5.81	5.83	5.85	30
31	5.85	5.87	5.89	5.90	5.91	5.93	5.94	5.96	5.97	5.98	31
32	6.00	6.01	6.02	6.04	6.06	6.06	6.08	6.10	6.10	6.12	32
33	6.14	6.14	6.16	6.18	6.18	6.20	6.22	6.23	6.24	6.26	33
34	6.27	6.28	6.30	6.31	6.33	6.33	6.35	6.37	6.37	6.39	34
35	6.41	6.41	6.43	6.44	6.45	6.46	6.48	6.50	6.50	6.52	35
36	6.52	6.54	6.55	6.56	6.58	6.59	6.61	6.61	6.63	6.63	36
37	6.65	6.66	6.68	6.68	6.70	6.71	6.72	6.73	6.75	6.75	37
38	6.77	6.78	6.79	6.80	6.82	6.82	6.84	6.85	6.85	6.87	38
39	6.88	6.89	6.90	6.92	6.92	6.93	6.95	6.95	6.97	6.98	39
40	7.00	7.00	7.01	7.01	7.03	7.03	7.05	7.06	7.08	7.08	40

Example—If the sample tested shows 3.30% of weed seeds, other crop seeds and inert matter, the tolerance is computed as follows: Find 3 in the "value" column, then .30 at top of table. These two intersect at .85; hence the tolerance is .85%.

Table of Tolerance for Pure Seed Variations for the following: Poa spp., Agrostis spp., Festuca spp., bromegrass, crested wheatgrass, orchard grass, velvet grass, tall oatgrass, meadow foxtail, sweet vernalgrass, Rhodes grass, Dallis grass, carpet grass, and Bermuda grass, and mixtures containing these seeds singly or combined in excess of 50%

Value %	.00	.10	.20	.30	.40	.50	.60	.70	.80	.90	Value %
100 99 98 97 96 95	.60 .79 1.00 1.21 1.41 1.62	.77 .98 1.19 1.39 1.59	.75 .96 1.17 1.38 1.57	.73 .94 1.15 1.35 1.54	.71 .92 1.12 1.33 . 1.52	.69 .90 1.10 1.31 1.51	.67 .88 1.08 1.29 1.50	.65 .86 1.07 1.27 1.48	.63 .83 1.06 1.24 1.45	.61 .81 1.03 1.23 1.43	100 99 98 97 96 95
94	1.82	1.81	1.78	1.76	1.74	1.71	1.70	1.68	1.66	1.63	94
93	2.03	2.00	1.98	1.97	1.95	1.92	1.90	1.87	1.86	1.84	93
92	2.23	2.21	2.18	2.17	2.15	2.12	2.10	2.09	2.06	2.04	92
91	2.43	2.41	2.39	2.36	2.35	2.33	2.30	2.28	2.27	2.24	91
90	2.64	2.61	2.59	2.57	2.55	2.52	2.51	2.49	2.47	2.45	90
89	2.83	2.81	2.79	2.77	2.75	2.72	2.71	2.69	2.67	2.65	89
88	3.03	3.01	2.99	2.97	2.95	2.93	2.91	2.89	2.86	2.85	88
87	3.23	3.20	3.19	3.16	3.15	3.12	3.11	3.08	3.07	3.04	87
86	3.42	3.40	3.37	3.36	3.35	3.32	3.31	3.28	3.27	3.24	86
85	3.62	3.59	3.58	3.55	3.54	3.51	3.50	3.48	3.46	3.44	85
84	3 80	3.78	3.77	3.74	3.73	3.70	3.69	3.67	3.65	3.63	84
83	4.00	3.97	3.95	3.94	3.91	3.90	3.88	3.86	3.84	3.83	83
82	4.18	4.16	4.14	4.13	4.11	4.08	4.07	4.05	4.03	4.01	82
81	4.36	4.35	4.33	4.32	4.29	4.27	4.26	4.24	4.21	4.20	81
80	4.56	4.53	4.51	4.49	4.48	4.46	4.44	4.42	4.41	4.38	80
79	4.73	4.71	4.69	4.68	4.66	4.63	4.62	4.60	4.59	4.57	79
78	4.92	4.90	4.87	4.85	4.83	4.82	4.80	4.79	4.77	4.74	78
77	5.09	5.07	5.05	5.03	5.01	4.99	4.98	4.96	4.94	4.93	77
76	5.25	5.24	5.22	5.20	5.19	5.17	5.15	5.14	5.12	5.10	76
75	5.43	5.40	5.39	5.37	5.35	5.34	5.32	5.30	5.29	5.27	75
74	5.59	5.57	5.56	5.54	5.52	5.50	5.49	5.47	5.45	5.44	74
73	5.76	5.84	5.73	5.71	5.69	5.67	5.66	5.64	5.63	5.61	73
72	5.92	5.90	5.89	5.87	5.85	5.83	5.82	5.80	5.80	5.78	72
71	6.07	6.05	6.05	6.03	6.01	6.00	5.98	5.96	5.94	5.94	71
70	6.24	6.22	6.20	6.18	6.16	6.15	6.14	6.12	6.11	6.09	70
69	6.37	6.37	6.35	6.33	6.32	6.30	6.29	6.28	6.26	6.24	69
68	6.53	6.51	6.49	6.49	6.47	6.45	6.43	6.43	6.41	6.39	68
67	6.67	6.65	6.64	6.63	6.61	6.59	6.59	6.57	6.55	6.53	67
66	6.80	6.80	6.78	6.76	6.76	6.74	6.72	6.71	6.71	6.68	66
65	6.95	6.93	6.91	6.91	6.89	6.87	6.86	6.84	6.84	6.82	65

(Continued on page 70)

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Value %	.00	.10	.20	.30	.40	.50	-60	.70	.80	.90	Value %
64	7.07	7.06	7.04	7.04	7.02	7.00	7.00	6.98	6.97	6.95	64
63	7.20	7.18	7.18	7.16	7.15	7.13	7.13	7.11	7.09	7.09	63
62	7.32	7.30	7.30	7.28	7.27	7.26	7.25	7.23	7.23	7.21	62
61	7.43	7.43	7.41	7.40	7.40	7.38	7.36	7.35	7.35	7.33	61
60	7.56	7.54	7.53	7.51	7.51	7.49	7.48	7.48	7.46	7.45	60
59	7.65	7.65	7.64	7.62	7.62	7.60	7.59	7.59	7.57	7.56	59
58	7.76	7.74	7.74	7.73	7.71	7.71	7.70	7.68	7.68	7.67	58
57	7.86	7.84	7.83	7.83	7.82	7.80	7.80	7.79	7.77	7.77	57
56	7.94	7.94	7.93	7.93	7.91	7.90	7.90	7.89	7.87	7.87	56
55	8.04	8.02	8.02	8.01	8.01	7.99	7.98	7.97	7.97	7.96	55
54 53 52 51 50	8.11 8.20 8.27 8.32 8.40	8.11 8.19 8.26 8.32 8.37	8.10 8.17 8.26 8.31 8.37	8.10 8.17 8.24 8.31 8.36	8.09 8.16 8.23 8.30 8.36	8.07 8.16 8.23 8.30 8.35	8.06 8.15 8.23 8.29 .	8.06 8.14 8.21 8.28 8.34	8.05 8.14 8.21 8.28 8.34	8.05 8.12 8.20 8.27 8.33	54 53 52 51 50

Example. If the purity test is 91.40%, use the table in this manner: Find 91 in the "value" column, then the .40 at top of table. These two intersect at 2.35. Therefore the tolerance allowed would be 2.35%.

EXTENDED TOLERANCE TABLE FOR OCCURRENCE OF NOXIOUS WEED SEEDS

Number Found by Analysis	The Following Are Within the Tolerance	Number Found by Analysis	The Following Are Within the Tolerance	Number Found by Analysis	The Following Are Within the Tolerance	Number Found by Analysis	The Following Are Within the Tolerance	Number Found by Analysis	The Following Are Within the Tolerance	Number Found by Analysis	The F.1- lowing Are Within the Tolerance
2 4 6 8 9 11 12 13 14 16 17 18 20 21 223 24 25 27 28 29 30 32 33 34 35 37 38 39 41 423 44 45 46 48 49 50 51 55 55 56 57 58 59 60 61 63 64 65	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 48 49 49 40 40 40 40 40 40 40 40 40 40 40 40 40	66 67 68 69 71 72 73 74 75 76 77 78 80 81 82 83 84 85 86 87 89 90 91 92 93 94 95 96 97 99 100 101 102 103 104 105 106 107 108 110 111 111 113 114 115 116 117 118 119 110 111 111 111 111 111 111 111 111	51 52 53 54 55 56 57 58 59 60 61 62 63 64 66 67 68 69 70 71 72 73 74 75 77 78 80 81 82 83 84 85 86 90 91 92 93 94 95 96 97 97 98 99 90 90 90 90 90 90 90 90 90 90 90 90	122 123 124 125 126 127 128 129 130 132 133 134 135 136 137 138 139 140 141 142 144 145 146 147 148 149 150 151 152 153 154 156 157 158 159 160 161 162 163 164 165 166 167 169 170 171 172 173 174 175	101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 137 138 137 138 137 138 139 140 141 142 143 144 145 146 147 148 149 150	176 177 178 179 180 181 183 184 185 186 187 188 189 190 191 192 193 194 195 197 198 199 200 201 202 203 204 205 206 207 208 209 211 212 213 214 215 216 217 218 219 220 221 222 223 224 226 227 228 229	151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200	230 231 232 233 234 235 236 237 238 239 240 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 275 276 277 278 279 280 281 282	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250	283 284 285 286 287 288 289 290 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 328 329 330 331 332 333 334 335	251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300

Example—If the sample contains 50 noxious weed seeds the tolerance allowance is 37.



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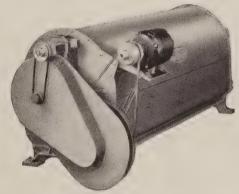
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EXPORTS OF ALFALFA, CLOVER AND TIMOTHY SEED 1911-1941, IN POUNDS

Compiled from Foreign Commerce and Navigation of the United States by the Agricultural Statistics Division, Agricultural Marketing Service, U. S. Department of Agriculture.

	***************************************		C1		Od	T7	
3.7	A 1 C 1 C		Clover, other		Other grass	Kentucky	
Year	Alfalfa	Red clover ¹	than red	Timothy	seeds	Bluegrass ²	Redtop ³
1911		2,407,145		7,893,121			
1912		3,222,963		11,111,807			
1913		4,965,994		13,542,705	5,062,473		
1914		6,659,971		13,688,707	4,666,000		
1915		9,527,258		17,646,273	3,668,694		
1916		6,049,990		12,428,140	4,120,544		
1917		8,738,668		13,880,725	5,426,305		
1918		5,985,526	,	8,564,384	2,952,193		
1919		7,943,749	4	13,346,358	4,440,490		
1920		4,985,695		13,522,134	4,252,152		
1921		5,734,754		19,901,945	5,171,563		
1922	1,025,129	2,015,891	2,477,902	18,120,790	4,198,992		
1923	399,346	800,550	859.531	18,870,181	4,004,157		
1924	363,369	516,225	1,131,845	16,535,051	4,070,332	.î · ; · · · · · ·	t
1925	1,332,992	415,921	721,298	12,484,598	5,605,583		
1926	741,516	583,980	1,168,945	13,685,157	5,888,540		
1927	1,393,474	1,279,867	792,734	16,669,986	5,659,642	• • • • • • • •	
1928	781,920	455,738	389,951	12,220,398	5,257,668		
1929	825,830	523,535	427,492	9.195,022	8,194,009		
1930	832,965	535,472	708.979	15,828,571	6,419,390	· · · · · · · · · · · · · · · · · · ·	
1931	218,044	670,304	256,818	10,476.344	5,189,679		
1932	1,564,641	297,899	318,867	10,470,344	3,509,375		
1932							
1933	1,198,796	3,025,438	133,863	5,009,247	3,957,223		
1934	958,901	1,091,620	1,769,465	3,698,220	5,305,850		
	508,997	311,437	774,667	3,424,716	4,420,259		
1936	283,573	125,271	99,065	4,002,606	4,473,151		*
1937	3,098,260	463,189	174,323	3,231,770	7,425,136		
1938	354,888	182,772	130,377	4,491,549	10,465,941		
1939	449,193	224,249	488,960	10,406,336	6,149,179	((4.500	445 664
1940	485,220	726,492	1,276,226	9,584,470	9,451,317	664,560	445,664
19413	654,462	1,054,424	2,085,419	5,421,740	7,422,759	435,400	451,635

¹Including all clover 1911-21.

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²Prior to 1940 included with "other grass seeds."

³Eight months ended August 31, 1941.

FIELD CROPS PLANTING INSTRUCTIONS **

KIND OF SEED	Lbs. per Bu.	Sow Lbs. per Acre	Time to Sow	Depth to Sow Inches
Alfalia—broadeast Alfalia—trilled. Artichokes, Jerusalem Barley—drilled. Beet, Mangel Stock Beens, Navy, Field (Small). Beans, Great Northern (Large Navy) Bermuda Grass Black Medic. Blue Grass, Kentucky, for lawns. Blue Grass, Kentucky, for pastures Blue Grass, Canada, for lawns. Blue Grass, Canada, for pasture. Brome Grass. Broom Corn. Blue Grass, Canada, for pasture. Brome Grass. Broom Corn. Blue Grass, Canada, for pasture. Brome Grass. Broom Corn. Blue Grass, Canada, for pasture. Browled Grass. Broom Corn. Clover, Alsike. Clover, Alsike.—in mixture Clover, Alsike.—in mixture. Clover, Hop. Clover, Hop. Clover, Hop. Clover, Mammoth. Clover, Fed. Clover, Fed. Clover, Red. Clover, Red. Clover, Red. Clover, Wammoth, in mixture. Clover, Red. Clover, Sweet, white or yellow. Clover, Sweet, white or yellow. Clover, Sweet, white or yellow. Clover, Sweet, white Orthon. Corn. Corn. Corn. Corn. Corn. Corn. Corn. Silage. Cotton Seed. Corton Grass. Kaffir-Milo-Peterita-Grohoma (drill). Kaffir-Milo-Peterita-Grohoma (broadcast). Cespedeza—Kope. Lespedeza—Sericea Millets-Hungarian, for Seed. Millets, Hungarian, for Seed. Millets, Hungarian, for Seed. Millets, Hungarian, for Seed. Millets, Hungarian, for Hay. Millets, Hung	60 60 60 60 48 30 60 40 60 40 60 40 60 60 60 60 60 60 60 60 60 6	18 to 22 12 to 15 150 to 200 120 to 150 6 to 8 25 to 30 40 to 60 4 to 6 18 to 20 125 20 to 30 125 20 5 to 8 50 to 60 4 to 5 2 to 4 8 to 10 30 to 40 12 to 15 10 to 12 6 to 10 6 to 10 12 to 15 25 to 30 6 to 8 8 to 10 14 to 20 32 12 to 15 8 to 10 10 to 12 20 to 30 28 to 30 6 to 8 8 to 10 20 to 30 10 to 12 20 to 30 10 to 15 40 to 50 4 to 5 125 25-30 20-25 20-25 20-25 20-25 20-25 25-30 30 15 48 30 20 to 30 8 to 10 60 to 80 21 to 28 10 to 14 30 to 40 30 to 35 120 to 150 75 to 90 20 to 30 8 to 10 90 10 to 15 75 to 10 90 75 to 90	Spring and early fall Spring and early fall March, April, May March, April April, May, June May, June, July May, June, July May, June, July March to May Feb., March, April Early spring, early Sept. Spring April, May Late Spring Winter to April Winter to April Winter to April Aug., Sept., Oct. July to October Feb., Mar., April, Sept. Winter, early April March to August March to August March to April Late spring Late spring Late spring April, May, June April, May, June March, April, May May, June, July Early spring, Aug., Sept. Early spring, Aug., Sept. Early spring, Aug., Sept. Early spring, after frost Early spring fall Early spring fall Early spring, fall Early spring May, June May, June May, June May, June May, June May or June May,	1 to 1½ 1 to 1½ 1 to 1½ 1 to 1½ 1

^{*}NOTE.—Weights per bushel for certain grasses are old standards. Good recleaned seed is usually heavier.

^{**}Earl M. Page, Pres., Corneli Seed Co., St. Louis, Mo.



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Ozark Fisheries, Inc.
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Vegetable Planting Chart

Vegetable	Depth to Cover (inches)	Space Between Rows	Space to Set Plants or Thin Out	Time Required to Produce Crop Ready for Use	Approximate Yield per 20 ft. of Row	Seed Required to Sow One Acre	Time to Plant is	n Open Ground	
			Seedlings	-			South	North	
Asparagus	Seeds, 1 in. Plants, 4 in.	3 to 4 ft.	12 in.	Seeds 4 years Plants 2 years Seeds 6 d bunches of 1 doz. each for entire patch 4 lbs. Autumn or spring		Autumn or early spring	Early spring		
Beans (Bush (Limas,	2 in.	2 ft.	4 in.	60 to 90 days	8 qts.	50 lbs.	Late spring	May and June	
see below) (Pole	2 in.	3 ft.	3 ft.	90 to 120 days	10 qts.	30 to 50 lbs.	Late spring	May and June	
Beet	½ in.	18 in.	2 to 3 in.	60 to 80 days			Feb. to April— Aug. to Sept.	April to Aug.	
Broccoli	14 in.	21g ft.	24 in.	120 days	20 heads	4 ozs.			
Brussels Sprouts	¼ in.	2½ ft.	24 in.	120 days	20 qts.	4 ozs.	Jan. to July	May and June	
Cabbage		2½ ft.	18 to 24 in.	100 to 150 days	10 heads	4 ozs.	Oct. to Dec.— June and July	Mar. to June	
Chinese Cabbage	¼ in.	2½ ft.	12 in.	80 to 100 days	20 heads				
Carrot	½ in.	2 ft.	2 to 4 in.	45 to 60 days	5 doz. roots	3 to 4 lbs.	Mar. and AprSept	. April to June	
Cauliflower		2 to 3 ft.	24 in.	120 to 150 days	8 to 10 heads	4 ozs.	Jan. and FebJune	April to June	
Celery		3 ft.	6 in.	100 to 120 days	2 doz. stalks	4 ozs.	Aug. and Oct.	May and June	
Corn, Sweet *	2 in.	3 ft.	12 in.	80 to 120 days	40 ears	8 to 10 lbs.	Feb. to April	May to July	
Cucumber	¼ in.	4 ft.	3 to hill	60 to 80 days	20 to 30 pickles	3 to 4 lbs.	Feb. and Mar.–Sept.	April to July	
Eggplant		2½ ft.	24 in.	100 to 120 days	30 to 40 fruits	5 to 6 ozs.	Feb. to April	April and May	
Endive	⅓ in.	2 ft.	10 to 12 in.	60 to 80 days	30 to 40 plants	4 to 5 lbs.	Feb. to April	April and July	
Kale ·	½ in.	2½ ft.	12 in.	80 to 100 days	20 plants	4 to 5 lbs.	Oct. to Feb.	Aug. to Sept. —Mar. and Apr.	
Leek	½ in.	2 ft.	4 in.	100 days	60 plants	4 lbs.	May to Sept.	Mar. to May	
Lettuce	½ in.	2 ft.	10 to 12 in.	45 to 60 days 20 heads 1½		1½ to 2 lbs.	Sept. to Mar.	Mar. to Sept.	
Melon, Musk	½ in.	4 ft.	3 to hill	100 to 120 days	30 fruits	3 to 4 lbs.	Feb. to April	April to June	
Beans, Limas (Bush	2 in.	3 ft.	24 in.	100 days	4 qts.	30 to 50 lbs.			
Pole	2 in.	4 ft.	3 ft.	120 days	5 to 6 qts.				
Onions	½ in.	18 in.	4 in.	80 to 110 days	80 onions 10 to 20 lbs. per row	3 to 4 lbs.	Oct. to Mar.	April to May	
Onion Sets	1 in.	18 in.	2 in.	30 to 60 days	120 scallions	60 to 85 lbs.	Early spring	Autumn— Feb. to May	
Peas	2 in.	2½ ft.	1 in.	60 to 100 days	10 to 20 qts. of pods	90 to 180 lbs.	Sept. to April	Mar. to June	
Pepper		3 ft.	-2 ft.	100 days	10 doz. peppers	½ to 1 lb.	Early spring	May and June	
Potatoes	4 in.	3 ft.	6 in.	100 days	10 to 15 lbs.		Jan. to April	Mar. to June	
Potatoes, Sweet	3 in.	3½ ft.	2 ft.	5 mos.			April and May	May and June	
Pumpkin	½ in.	4 to 6 ft.	3 to hill	100 to 120 days	5 to 10 fruits	3 to 4 lbs.	April and May	May and July	
Radish	½ in.	18 in.	1 to 4 in.	30 to 60 days	10 to 15 doz.	10 to 12 lbs.	Sept. to April	Mar. to Sept.	
Rhubarb	6 in.	3 ft.	3 ft.	60 days	6 doz. stalks	3 lbs.		Early spring	
Rutabaga	1/8 in.	2 ft.	6 in.	90 to 100 days	50 to 60 roots	2 to 4 lbs.	Aug. and Sept.	May and June	
Spinach	½ in.	18 in.	4 in.	60 days	50 to 60 plants	15 to 20 lbs.	Sept. to Feb.	Sept. or very early spring	
Spinach, N. Zealand	1 in.	18 in.	3 in.	2 mos.					
Squash	¼ in.	4 to 6 ft.	3 to hill	100 to 120 days	2 doz. fruits, bushvar.	4 to 6 lbs.	Spring	April to July	
Swiss Chard	½ in.	2 ft.	12 in.	90 to 100 days	20 plants	6 to 10 ozs.			
Tomato		3 to 4 ft.	' 3 ft.	100 to 120 days	15 to 20 lbs. per plant during season	2 ozs.	Dec. to Mar.	May to June	
Turnip	½ in.	2 ft.	4 in.	60 to 80 days	60 to 80 roots	2 to 3 lbs.	Aug. to Oct.	April to Aug.	
Watermelon	½ in.	6 ft.	4 to 6 ft.	3 to 4 mos.					

The time requirements for crops to reach edible size varies, of course, according to the seasons and varieties. Different soils also have a profound influence. A tomato, for instance, which in Southern New Jersey will mature in 90 days, may require from 100 to 110 days in sections further north having heavy clay soils. Allowance also must be made for the relative estimate of the yields, due to climatic and soil conditions. But the averages will be found to be fairly accurate on the basis of many years of observation.

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SHERWOOD SEED COMPANY

C. F. VOORHIES

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SAN FRANCISCO, CALIFORNIA

VEGETABLE SEED GERMINATION STANDARDS—MINIMUM PERCENTAGE

	Fed. Seed Act# Interstate Regulation	Fla. 1941	Mass.§	Mich. 1942	Mo. 1941	N. C. 1941	Ohio 1940	Ore.† 1939	S. C. 1940	Va. 1940	Wash. 1941	W.Va.∳ 1941	Wis. 1941	Can.‡	S. D. 1941	Texas [®] 1941	III. 1942	Geo. 1942
Artichoke	60	60	60	60	60		60		60		60	60	69	75	60	60	60	60
Asparagus	*70	*70	*70	70	*70	*70	*70	70	*70		*70	70	70	75	70	70	*70	*70
Bean	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	85	80	80
Bean, Large Lima	70	70	70	70	70	70	70	70	75	70	70	70	70		70	70	70	70
Bean, Small Lima	70	70		75	70	70	70	80	75	80	70	70	70			80	70	70
Bean, Fordhook	65	65	65	65	65	65	· · ·	70		 4 =	65	65	65	65	65	65	65	65
Beet	75	75	75	65 75	75	75	65 75	75	65 75	65 75	75	75	75	75	75	75	75	75
Brussels Sprout	70	70	70	70	70	70	70	75	70	70	70	70	70	80	70	70	70	70
Cabbage	75	75	75	70	75	75	75	80	75	75	75	75	75	80	75	75	75	75
Caraway				65												65		
Carrot	55	55	55	55	55	55	55	65	55	55	55	55	55	55	65	55	55	55
Cauliflower	75	75	75	70	75	75	75	75	75	75	75	75	75	75	75	75	75	75
Celeriac	55	55	55	55	55	55	55	60	55	55	55	55	55	55	55	55	55	55
Celery	55	55	55	55	55	55	55	60	55	55	55	55	55	55	55	55	55	55
Chicory	65	65 65	65	65	65	65	65	70	65	65	65	65	65	65	65	65	65 65	65 65
Citron	65	65	65	60 65	65 65	65	65 65	75 75	65		65 65	65	75 65	75 75	65	65	65	65
Co·lard	80	80	80	80	80	80	80	80	80	80	80	80	80	13	80	80	80	80
Corn. Sweet	75	75	75	75	75	75	75	80	75	75	75	75	75	80	75	75	75	75
Cress, Curled		40	40	60	80	40								75	40	70		40
Cress, Upland	40				40		40		40		40		40]]	40	
Cress, Water	25	25	25	30	25	25	25		25		25		25		25	40	25	25
Cucumber	80	80	80	80	80	80	80	80	80	80	80	80	80	75	80	80	80	80
Dandelion	45	45	45		45	45	45		45		45	45					45	45
Dill Eggplant.	60	60	60	60	60	60	60	60	60	60	60	60	60	6.5		60	60	60 60
Endive.	70	70	70	60 70	60 70	60 70	60 70	65 75	60 70	60	60 70	60 70	60 70	65 75	60 70	60	60 70	70
Fetticus (Corn Salad)	70	70	70	10	70	70	70	13	70	10	70	70		15	70	10	70	70
Kale	75	7.5	75	70	75	75	75	80	75	75	75	75	75	80	75	75	75	75
Kohl Rabi	75	75	75	75	75	75	75	75	75	75	75	75	75	80	75	75	75	75
Leek	60	60	60	60	60	60	60	75	60	60	60	60	60	75	60	60	60	60
Lettuce	80	80	80	80	80	80	80	75	80	75	80	80	80	80	80	75	80	80
Melon, Musk	75	75	75	75	75	75	75	80	75	80	75	75	75	75	75	75	75	75
Melon, Honey Dew	70	70	7.0	70	70	70	7.0			70							70	70
Melon, Water	75	70 75	70 75	70 75	70	70	70	75	70	70	70	70	70	75	70	70	70 75	70 75
Okra	*50	*50	*50	*70	75 50	50	75 50	75 60	75	75 50	75 50	75 50	75 50	75	50	75 50	*50	50
Onion	70	70	70	70	70	70	70	75	70	70	70	70	70	75	70	70	70	70
Parsley	60	60	60	60	60	60	60	65	60	60	60	60	60	65	60	60	60	60
Parsnip	60	60	60	60	69	60	60	65	60	60	60	60	60	55	60	60	60	60
Pea	80	80	80	80	80	80	80	85	80	80	80	80	80	80	80	80	80	80
Pepper	55	55	55	55	55	55	55	60	55	55	55	55	55	65	55	55	55	55
Pumpkin	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75
RadishRhubarb	75 60	75 60	75 60	75	75 60	75 60	75 60	85	75 60	75	75	75 60	75 60	80	75 60	75	75	75 60
Rutabaga	75	75	75	75	75	75	75	80	75	75	75	75	75	80	75	75	75	75
Sage						, ,	, ,	00	/5	14	,,	60	75	60	,,,	13	13	60
Salsity	75	75	75	75	75	75	75	70	75	75	75	75	75	75	75	75	75	75
Savory												60		60				
Sorrel	60	60	60		60	60	60		60		60	60					60	60
Spinach Nam Zaala 1	60	60	60	60	60	60	60	70	60	60	60	60	60	65	60	60	60	60
Spinach, New Zealand Squash	40	40	40	7.5	40	40	40	7.5	40	÷:	40	40	40	7.5	40	7.5	40	40
Tomato	75 75	75 75	75 75	75 75	75 75	75 75	75	75 75	75 75	75	75	75	75	75	75	75	75	75
Tomato, Husk	50	50	50		50	50	75 50		50	75	75 50	75 50	75	75	75 50	75	75 50	75 50
Turnip	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
tComede Charling										-00	00, 1	00	-00	00 1	00	-00	00	

*Canada—Chervil 75%, Chives, 75%, Mangel 65%, Sage 55%, Savory 55%, Vegetable Marrow 75%.

Georgia—Cardoon 60%.

Federal Seed Act—Chinese Cabbage 75%, Pak-choi 75%, Spinach Mustard 75%, Vegetable Mustard 75%.

Massachusetts—Chinese Cabbage 75%.

Gresas—Sweet Fennel 60%.

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*Including Hard Seeds.

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JOHN B. WILSO	ON. JR Special Assistant to the Administrator

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FEDERAL-STATE SEED LABORATORIES

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B. L. WADE, U. S. Regional Vegetable Breeding Laboratory, Charleston, S. C.

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C. CUSHING, in charge, insects affecting man and animals

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P. A. HOIDALE, in charge, Mexican fruitfly control, Harlingen, Texas

E. G. BREWER, in charge, Japanese Beetle control, Bloomfield, N. J.

A. F. BURGESS, in charge, gypsy and brown-tail moth control, Greenfield, Mass.

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State Seed Laws

Compiled by L. J. La Pine Seed Analyst

December, 1941

SEED WORLD and SEED TRADE BUYERS GUIDE wish to acknowledge the work of Miss Macy Spracher, Seed Analyst for Northrup, King & Co., Minneapolis, for her outstanding work in this department in previous editions of the Guide. Much of her work is retained in this compilation of the Seed Laws and to her we give full credit for the arrangement in the 1942 edition, as well as all former volumes. Ed.

Grouping of Agricultural Seeds for Noxious Weed Labelling

GROUP A

a. In excess of one seed in each 5 grams of timothy, redtop, tall meadow oat grass, orchard grass, crested dogstail, Canada bluegrass, Kentucky bluegrass, ference beginning for the seed in each 5 grass, fescues, brome grasses, perennial and Italian rye grass, western rye grass, crimson clover, red clover, white clover, alsike clover, sweet clover, alfalfa, and all other grasses and clovers not otherwise classified.

' b. In excess of one seed in each 25 grams of millets, rape, flax, Sudan grass and other seeds not specified in (a) or (c) of this section.

c. In excess of one seed in each 100 grams of wheat, oats, rye, barley, buck-wheat, vetches, and other seeds as large or larger than wheat.

GROUP B

In excess of one seed or bulblet in each 5 grams of Agrostis spp., Poa spp., Rhodes grass, Bermuda grass, timothy, orchard grass, fescues (except meadow fescue), alsike and white clover, reed canary grass, Dallis grass, and other agricultural seeds of similar size and weight, or mixtures within this group;

In excess of one seed or bulblet in 10 grams of rye grass, meadow fescue, foxtail millet, alfalfa, red clover, sweet clovers, lespedezas, smooth brome grass, crimson clover, Brassica spp., Agropyron spp., and other agricultural seeds of similar size and weight or mixtures within this group, or of this group with (a);

In excess of one seed or bulblet in each 25 grams of proso, Sudan grass and other agricultural seeds of similar size and weight, or mixtures not specified in (a), (b), or (d);

d. In excess of one seed or bulblet in each 100 grams of wheat, oats, rye, barley, buckwheat, sorghums (except Sudan grass), vetches, and other agricultural seeds of a size and weight similar to, or greater than, those within this group, or any mixtures within this group.

Note—Where there is a clause con-cerning HYBRID SEED CORN in the law, the labeling requirements are given a special heading coordinate with other groups of seeds. Where it comes under a regulation which may be changed any time by the enforcement officer, the requirements will be found under EN-FORCEMENT.

ALABAMA

Law Amended 1935 and Regulations Effective January 1, 1942

UNFORMATION REQUIRED ON ANALYSIS TAGS OR CONTAINER

- (A) Agricultural Seeds. Every lot of 5 pounds or more

 - Not weight.

 Lot number (regulation).

 Percentage of pure seed.

 Percentage of weed seeds. Prohibit 2½%,

 Dallis and Carpet grass 5%.

 Percentage of other crop seed (regulation).

 - tion).

 Percentage of inert matter (regulation).

 Name and number per pound of each noxious weed seeds present singly or collectively in excess of (a) One in 5 grams (see page 106, group A.)

 - (a) One in 5 grams.
 A.)
 (b) One in 25 grams.
 (c) One in 100 grams.
 Percentage of—
 (a) Germination.
 (b) Hard seeds. (Regulation.)
 (c) Month and year of test. Date of test not over 180 days prior to date of

 - Where grown. Full name and address of person responsible for label.

- of 5 pounds or more (by regulation every lot)
 - 1. That such seed is a mixture.
 - Net weight.

 - Net weight.

 Lot number (regulation).

 Name and percentage of each agricultural seed present in excess of 5% of total mixture.

 - Percentage of weed seeds. Prohibit 2½%, Dallis and Carpet grass 5%.

 Percentage of other crop (regulation).

 Percentage of inert matter (regulation).
 - Name and number per pound of each noxious weed seeds present singly or collectively in excess of one seed in each 15 grams of the mixture.
 - For each agricultural seed present in excess of 5% give—

 (a) Percentage of germination.

 (b) Percentage of hard seeds. (Regulation)

 - (c) Month and year of test. Date of test not over 180 days prior to date of sale.
 - 10. Where grown.
 - Full name and address of person responsible for label. Full

- (B) Mixtures of Field Seeds. Every lot (C) Special Mixtures. Every lot of 8 ounces or more (by regulation every lot)
 - 1. That such seed is a mixture.
 - 2. Net weight.
 - Lot number (regulation).
 - Name and percentage (regulation) of each kind of agricultural seed present in proportion of 5% of the total mixture.
 - Percentage of weed seeds. Prohibit 21/2%, Dallis and Carpet grass 5%.
 - Percentage of crop seeds (regulation).
 - Percentage of inert matter.
 - Name and number per pound of each noxious weed seeds present singly or collectively in excess of one seed in 15 grams of the mixture.
- For each agricultural seed present in excess of 5% give—

 (a) Percentage of germination.

 (b) Percentage of hard seeds (regulation).

 (c) Month and year of test. Date of test not over 180 days prior to date of sale. sale.
 - 10. Where grown.
 - 11. Full name and address of person responsible for the label.

- (D) Vegetable Seeds included as agricultural seed; therefore each lot of 5 pounds or more is to be labeled as agricultural seed under "A." By regulation the Department of Agriculture asks for the following labeling:

Packet seeds of less than 8 ounces shall bear a statement showing:
(1) Name of kind and variety of seed.
(2) For seed which germinates less than the standard last established by the Association of Official Seed Analysts.
(1) Percentage of germination exclusive of hard seeds.
(II) Percentage of hard seed if present.

(II) Percentage of hard seed it present.

(III) The calendar month and year the test was completed to determine such percentage.

(IV) The words "Below Standard."

(3) Name and address of person responsible for the information given.

(b) Packet or package seed of 8 ounces and over and less than 5 pounds shall bear a statement showing:

(1) Name of kind and variety of seed.

(2) Percentage of germination, exclusive of hard seed.

Percentage of germination, exclusive of hard seed.

Percentage of hard seed if present.

The calendar month and year the test was completed to determine such percentages

Name and address of party responsible for the information given.

PROHIBITS THE SELLING OR GIVING AWAY FOR PLANTING PURPOSES SEED

Containing 2½% weed seeds. Dallis and Carpet grass 5%.

Carpet grass 5%.
Containing 200 primary and 500 secondary noxious weed seeds per pound.
Excessively low in germination.

Excessively low in germination.

Size of analys or equivalent

With germination date over 180 days old. Mislabeled seed whose variety is unadapted and unsuited for seeding purposes in Alabama.

(Regulations January 1, 1942)

Give name and number per pound on analysis tag.

Seeds containing more than 200 primary and 500 secondary noxious weed seeds per pound shall not be offered for sale.

PRIMARY NOXIOUS

Bermuda grass (Cynodon dactylon) Dodders (Cuscuta spp.). Garlie, wild (Allium vineale). Johnson-grass (Sorghum halepense). Nutgrass (Perennial Cyperus spp.)

SECONDARY NOXIOUS

Chess or Cheat (Bromus secalinus and B. commutatus).
Corncockle (Agrostemma githago).
Darnel grass (Lolium temulentum).
Docks and Sheep Sorrel (Rumex spp.).
Plantains (Plantago spp.).
Quackgrass (Agropyron repens).
Thistle, Canada (Cirsium arvense).

LABORATORY

Federal—State seed laboratory.
L. N. Allen, Associate Seed Technologist,
U. S. Department of Agriculture.
O. L. Justice, Chief seed analyst State of

O. L. Justice, Chief seed analyst State of Alabama.

Tests—Tests will be made for farmers between May 15th to August 15th and November 15th and December 15th. For services rendered beyond an equivalent of \$3.00, a fee will be charged.

ENFORCEMENT

Under State Board of Agriculture.

Under State Board of Agriculture.
Notice of shipment.
(a) Notice of shipment of agricultural seeds shall be mailed within 24 hours of shipping date and shall bear:

(1) Name and address of shipper.
(2) Name and address of person to whom shipped.
(3) The amount.
(4) The kind and variety of seed.
(5) The lot numbers of seed.
(b) Notice of the location of so called commission boxes of packet seed shall state:

(1) Number of boxes.
(2) Number and size of packages in each.

Number and size of packages in each.
Their classification as to kinds of seed contained therein.
Name and address of shipper and party to whom delivered.

Size of analysis tag shall be 434×236 inches, or equivalent in square inches.

or equivalent in square inches.

All information required on analysis tag shall be placed on one side of the label without intervening matter.

The date on the analysis tags should be the date the germination test was completed.

A complete analysis totaling 100% must be given. Blank spaces on a form tag or incomplete analysis are not permissible.

Abhygingtion of pages of the variety and

Abbreviation of names of the variety and kind of seed is not permissible.

Place of origin shall not be used as part of varietal name and kind of seed.

Modifying words or phrases shall not be used in connection with the variety, as "type," "for forage purposes," etc.

Brand names, designs, grades or pictures indicating a contradiction to any part of the analysis shall not be permitted.

Different varieties of the same kind of seed,

when in quantities less than 5%, will be considered other crop seed.

Standard Weights—Seed when packed for sale shall be in bags of standard weights and sizes as follows:

Ryegrass, Vetches, mixtures of Vetches or Peas, Austrian Peas, Cotton Seed and Crotalaria—100 lbs. net.

Rarley 96 and 120 neurols net

Barley 96 and 120 pounds net.

Lespedeza—100 and 125 pounds net. Crimson Clover, Cane and Sudan Grass— 100 and 150 lbs. net.

Soybeans-120 and 150 pounds net.

Rye--112 and 140 pounds net.

shall be 4 bushels of not less than 128

pounds, Records of receipt, sale and delivery of all seed by any dealer shall be accessible for examination by authorized agent of the Department of Agriculture for a period of 3 years. Said records must be available to inspectors within 10 days after delivery of

seeds.

Trucks or other motor conveyors transporting seed over the highways shall have available for examination a bill of lading, waybill, or delivery receipt showing (1) the name of the shipper or party from whom purchased; (2) the name and address of the party to whom seeds are to be delivered; (3) the kind and amount of each separate kind of seed and (4) the name of the truck driver and truck line making the delivery.

Express, mail and freight including truck deliveries to consumers of seed shall also be subject to provisions and rules and regulations pertaining to the enforcement of the Seed Law.

New analysis tag bearing the name of the

lations pertaining to the enforcement of the Seed Law.

New analysis tag bearing the name of the vendor or other party responsible shall be placed on seed after the original test date becomes 180 days old.

Seeds treated with fungicides, shall show on the label the words "Poison Treated" in not less than ½ inch face red type.

Minimum germination. No agricultural seed except grasses, unscarified legumes, garden seed listed in The Standards for Germination and seed released by the U. S. customs shall be offered for sale if the germination is below 60%.

Seed labeled or sold as "Certified," "Registered" or "Pedigreed" must have been certified or registered and inspected by an officially authorized agency and cannot be sold in Alabama unless the party selling shall have registered with the Alabama Department of Agriculture Seed Laboratory the lot number, variety and kind, name and address of the grower, and the history of the seed.

Mixed varieties of Oats shall not be sold for each attick.

Mixed varieties of Oats shall not be sold for planting purposes in this state.

False wild oats will be considered weeds.

Only the analysis tag and a tag showing that the seeds have been treated with poison will be allowed, and both must be attached by the same fastener.

ARIZONA Seed Law of 1941

ANALYSIS TAGS OR CONTAINERS (A) Agricultural Seeds (Unmixed). Every

- lot.
 - 1. Name of-
 - Name of—
 (a) Kind or,
 (b) Kind and variety.
 Lot number or other lot identification.
 Percentage of purity.
 Percentage of inert matter.
 Percentage of weed seeds.
 Percentage of other agricultural seed.
 Percentage of—

INFORMATION REQUIRED ON

- (a) Germination, exclusive of hard seed.
- (b) Hard seed.
- (b) Hard seed.

 (c) Month and year test was completed. The test shall have been completed within a nine month period exclusive of the month in which the test was completed.

 Following (a) and (b) statement of "Total Germination and Hard Seed" may be given if desired.

 Origin of alfalfa, red clover and field corn (except hybrid). If origin is unknown it must be so stated.

 Name and address of dealer who labeled the seed, or who sells, offers or exposes said seed for sale.

 Name and number of secondary noxious weed seeds per ounce in groups B1 and B2

and per pound in B3 and B4 when present singly or collectively in excess of
(a) a. 1 seed in 5 grams (see page 106, group B).
b. 1 seed in 10 grams.
c. 1 seed in 25 grams.
d. 1 seed in 100 grams.
(b) Name and number per ounce of Bermuda grass (Cynodon dactylon) and Sour clover (Mellotus indica) when present in seeds of grassed or small seeded legumes.

(B) Mixed Agricultural Seeds. Every lot.

Same as unmixed agricultural seed except it shall be called "Mixed" or a "Mixture" and the information required under (A) 1, 3 and 7 shall be given for each kind of agricultural seed present in excess of 5% in the order of its predominance

Vegetable Seeds. Every lot.

Name of kind and variety.

Seed which germinates less than the standard last established by the state entomologist.

(See page 102 for standards.)

(a) Percentage of germination exclusive of hard seed.

(b) Percentage of hard seed.

(c) Month and year test was completed within a nine month period exclusive of the month in which the test was completed.

(d) The words "BELOW STANDARD" in not less than 8 point type.
3. Name and address of dealer who labeled seed, or who sells, offers or exposes said seed for sale.

PROHIBITS FROM SALE

Unless the test for germination shall have been completed within a nine month period exclusive of the month in which the test was made.
 If containing primary noxious weed seeds, subject to tolerances.

NOXIOUS WEEDS

PRIMARY NOXIOUS WEEDS, prohibited if present subject to tolerances.

Nut grass—Cyperus rotundus, C. esculentus; Bindweed—Convolvulus arvensis; Russian knapweed—Centaurea repens; Canada thistle—Cirsium arvense; Leafy spurge—Euphorbia esula; Hoary cress—Lepidium draba, L. repens, Hymenophysa pubescens; Horsenettle—Solanum eleagnifolium, S. carolinense; Perennial sow thistle—Sonchus arvense; Camels thorn—Alhagi camelorum; Johnson grass—Sorghum halepense (when it occurs in sudan grass and small seeded legumes).

SECONDARY NOXIOUS WEEDS
Wild oats—Avena fatua; Wild mustard—Brassica arvense, B. nigrum, B. juncea; Tansy mustards—Sisymbrium irio, S. sophia, S. altissimum; Dodders—Cuscuta spp.; Ragweeds—Franseria ten-

uifolia, F. discolor, Ambrosia psilostachya; Poverty weed—Iva axillaris; Alkali mallow—Sida hederaceae; Blue sunflower—Helianthus ciliaris; Squirrel tail grass—Hordeum jubatum; Wild barley—Hordeum murinum; Buckhorn plantain—Plantago lanceolata; Russian thistle—Salsola kali var. tenuifolia; Bur grass—Cenchrus pauciflorus; Puncture vine—Tribulus terestris; Whorled mitkweed—Osciepias galioides; Johnson grass—Sorghum halepense (except as specified under Primary noxious weeds).

"STOP SALE" ORDER. The state entomologist shall have the power to issue and enforce a stop sale order to the owner or custodian of any agricultural or vegetable seed which is in violation of any provisions of this act, which order shall prohibit the further sale of the seed until proof is furnished that the law has been complied with. Before such order is issued or attached the owner or custodian shall be given an opportunity to comply with the law or to withdraw the seed from sale. The owner or custodian of seed that has been denied sale under a stop sale order shall have the right to appeal

from the order to the Superior court of the county in which the seed is found.

county in which the seed is found.

EIZURE. Any lot of agricultural or vegetable seed not in compliance with the provisions of this act shall be subject to seizure upon the complaint of the state entomologist to the Superior court of the county in which the seed is located. If the court finds that the seed does not comply with the law it shall order the condemnation thereof, and the seed shall be denatured, processed, destroyed, relabeled, or otherwise disposed of as ordered by the court. Upon application of the owner or custodian of the seed, the court shall have power to permit the applicant to process or relabel the seed to bring it into conformity with the act. SEIZURE.

Sugar beets are exempt from the various provisions requiring the percentage of germination.

LICENSE. Any dealer who sells, distributes, processes or mixes for the use of another, any agricultural or vegetable seed shall obtain a license, at a cost of fifty cents (50c) from the state entomologist. A dealer shall not be en-

titled to a license unless he has an established plant, warehouse or place of business. The license shall be renewed annually not later than July 1st, and the application for renewal shall be accompanied by a fee of fifty cents (50c). This provision shall not apply to a farmer growing or marketing his own seed, or to any individual who harvests the producer's crop and receives part of the crop as payment for services rendered in harvesting.

SEED LABORATORY

Agronomy Dept., University of Arizona, Tuc-son, Ian A. Briggs, Associate Agronomist.

son, Ian A. Briggs, Associate Agronomist.
FEES FOR TESTING
Not more than 5 samples shall be tested free of charge in any calendar year, nor more than 1 in any calendar month for an individual. Samples in excess of this number shall be tested upon payment of a minimum fee of seventy-five cents (75c) for either purity or germination and \$1.50 for both. Fees shall be proportionately higher when more than the usual amount of time is required.

ARKANSAS

Act of 1921 As Amended 1939 - Rules 67 and 68 - Regulations Form 101 and 102 Revised June 30, 1940

INFORMATION REQUIRED ON ARKANSAS PERMIT TAG

(A) Agricultural Seeds—Each Bag.*

Kind of seed.

Kind of seed.
 Lot number.
 Percentage of pure seed.
 Percentage of weed seed.
 Names and numbers of noxious weed seeds present per pound or, if not present, a statement to that effect.
 Percentage of:

 (a) Germination exclusive of hard seed.
 (b) Hard seed.
 (c) Date of test. Made not more than 6 months previously.

 Percentage of hard seeds if present.
 State in which grown; if unknown, so state.
 Seedsman's or vendor's name and address.

(B) Mixtures.*

Mixtures of 2 or more kinds—percentage of purity of the predominant kind may be given and the other kinds be considered as impurities. or the percentage of the various kinds present may be shown with the germination of each (exclusive of hard seeds) and the percentage of hard seeds, if present, or if the germination (including hard seeds) of none of said seeds is below 85%, then only the germination of the mixture taken as a whole need be shown.

(C) Vegetable Seeds.

The State Plant Board is authorized to sample and test vegetable seeds and to publish the results should the seed be found adulterated, misbranded or of poor quality.

NOXIOUS WEEDS

Dodder—Cuscuta spp.; Buckhorn—Plantago lanceolata; Chess or Cheat—Bromus secalinus;

Red Rice; Nut grass—Cyperus rotundas; Darnel—Lolium temulentum; Johnson grass—Sorghum halepense; Corn cockle—Agrostemma githago; Bottle brush plantain—Plantago aristato; sorrels—Rumex acetosa and Rumex acetosella; Docks—Rumex crispus, R. obtusifolius and R. conglomeratus; Wild onion or garlic—Allium spp.; Morning glory—Ipomoea purpurea; Field bindweed—Convolvulus arvensis; Hedge bindweed—Convolvulus sepium.

PROHIBITS FROM SALE OR TRANSPORTATION-

ANSPORTATION—
FIELD SEEDS CONTAINING:
Field bindweed, wild onion and nut grass.
FIELD SEEDS OTHER THAN LESPEDEZA
AND SUDAN GRASS CONTAINING:
5 Johnson grass per pound.
250 Dodder and cheat per pound.
2000 Noxious weed seeds per pound.
LESPEDEZA AND SUDAN GRASS CONTAINING:
25 Johnson grass per pound, if less, use special permit tag.
250 Cheat per pound.
500 Dodder per pound, if from 100 to 500, use special permit tag.
2000 Noxious weed seeds per pound.

SEED LABORATORY

Agricultural Building, Fayetteville, Arkansas. John E. Casey, Analyst.

ENFORCEMENT AND REGULATIONS
Enforcement under State Plant Board, War
Memorial Building. Little Rock, Arkansas.
Paul H. Millar, Chief Inspector.
Permit tags required on each bag of field seeds
may be secured from the State Plant Board,
War Memorial Building, Little Rock, Arkansas;
tags 2 cents each; good until July 1 of following year; expired tags exchanged at 1/4 cent
each.

Special Permit Tags bearing the words "Excessive Noxious Weeds" in large type, secured from the Plant Board.

Annual application of \$1.00 required except from those who use less than 20 permit tags and growers of Arkansas certified seed. Permit tags may be cancelled for failure to comply with the regulations.

with the regulations.

Cotton seed. To sell cotton seed in Arkansas must file with the application for permit, a satisfactory certificate of freedom from communicable diseases signed by state quarantine officer of state in which seed was grown.

Vetch seed must have attached to each bag, in addition to analysis and permit tag, a state or federal certificate, attached by official seal, to seal the mouth of the bag, showing that the bag has been satisfactorily fumigated or that the seed was grown in a state or county free from vetch weevil.

Hybrid Corn. Permits to sell hybrid corn will be granted:

(1) To breeder who has been officially recognized in his respective state.

nized in his respective state.

(2) On strains which have been found adapted to Arkansas. Breeder's permit tag must be attached to each container.

Sorghum seed for syrup purposes and Abruzzi rye is prohibited unless permission has been obtained from the Plant Board based on proof of trueness to name.

Use of words "Certified" or "Registered" limited to seed certified or registered by the duly authorized officer of the state of origin. If Soybeans and small grains are sold for other than planting purposes this must be indicated on the bag or tag.

*The information required by the Federal Seed Act, if given in toto, may be substituted for the information in (A) and (B).

CALIFORNIA

Agricultural Code Amended 1939

INFORMATION REQUIRED ON ANALYSIS TAGS.

(In not less than 7 point type or written in ink.)

(A) Agricultural Seeds. Every lot of 5 lbs. or more.

(B) Mixtures of two kinds of seeds. Every lot of 5 pounds or more.

That such seed is a mixture. Name and percentage of each kind of Ag-

ricultural seed present in excess of 5% by weight of the total in the order of its preponderance.

weight of the total in the order of its preponderance.

Percentage of weed seeds.

Name and number per pound of each primary noxious weed seed present.

Name of each secondary noxious weed present singly or collectively in excess of one seed in each 15 grams.

For each agricultural seed present in excess of 5% give—

(a) Percentage of germination, exclusive of hard seed. (Regulation.)

(b) Percentage of hard seed. (Regulation.)

(c) Month and year of test.

Name and address of vendor.

one seed in each 7. Name and address edude flower, survegetable seed.

NOXIOUS WEEDS

PRIMARY NOXIOUS

Blueweed, Texas—I Camel's thorn—Alb

(C) Special Mixtures. Each lot of 8 ounces or more.

That such seed is a mixture. Name of each kind of agricultural seed present in proportion of 5% or more of the total mixture in the order of its preponder-

Percentage of weed seeds.
Percentage of inert matter.
Name and number per pound of each primary noxious weed seed present.
Name of each secondary noxious weed seed

present singly or collectively in excess of one seed in each 15 grams.

7. Name and address of the vendor.

(D) Vegetable Seed-Law does not include flower, sugar beet, and garden

PRIMARY NOXIOUS WEEDS

RIMARY NOXIOUS WEEDS

Blueweed, Texas—Helianthus ciliaris
Camel's thorn—Alhagi camelorum
Canada thistle—Cirisium arvense
Cress, Austrian field—Roripa austriaca
Cress, Hoary—Lepidium draba, including Lepidium repens, Hymenophysa pubescens
Cress, Perennial pepper—Lepidium latifolium
Gaura, Scarlet—Gaura coccinea
Gaura, Wavy leaved—Gaura sinuata
Horsenettle, Carolina—Solanum carolinense
Horsenettle, White—Solanum elaeagnifolium
Knapweed, Russian—Centaurea repens
Klamath weed—Hypericum perforatum
Nutgrasses—Cyperus spp., including Cyperus
esculentus, Cyperus rotundus
Ouackgrass—Agropyron repens
Sowthistle, Creeping or Perennial—Sonchus arvensis.

vensis. Surge, Leafy—Euphorbia esula

SECONDARY NOXIOUS WEEDS

Bassis, Fivehook—Bassis hyssopifolia
Bindweed or Wild morning glory—Convolvulus
arvensis
Crabgrass—Digitaria sanguinalis
Crabgrass, Smooth—Digitaria ischaemum
Dodder, Clover—Cuscuta epitymum
Dodder, Field—Cuscuta pentagona
Dodder, Flax—Cuscuta epilinum
Dodder, Large-seeded—Cuscuta indecora
Dodder, Small-seeded—Cuscuta planiflora
Dogbane—Apocynum cannabinum
Johnson Grass—Holcus halepensis
Mallow, White or Alkali—Sida hederacea
Nightshade, Black—Solanum nigrum
including Solanum douglasii—(Perennial)
Poverty weed—Iva axillaris
Poverty weed—Iva axillaris
Royerty weed, Franseria—Franseria tenuifolia
Puncture vine—Tribulus terrestris
Ragweed, Western—Ambrosia psilostachya
Red rice—Oryza sativa-var.
Sandbur—Cenchrus pauciflorus
Thistle, Italian—Carduus pycnocephalus
Thistle, Italian—Carduus pycnocephalus
Thistle, Russian—Salsola kali
Thistle, Yellow star—Centaurea solstitialis

LABORATORY AND TESTS

INFORMATION REQUIRED ON ANALYSIS TAGS OR CONTAINER (A) Agricultural Seeds—Each lot.

Federal—State Seed Laboratory. State Office Building, Sacramento. Leatha D. Bunting, Analyst, U. S. Dept. of Agriculture. Free tests—Four free tests or one special mix-

ture will be made during the calendar year for any firm or individual.

Charges:

(a) For purity tests.

1. Alfalfa, cereals, clovers, cotton, cowpeas, fescues, field peas, flax, flower, lolium, millets, mixtures of only 2 kinds of seeds, mustards, phalaris, rape, rice, sorghum, soy beans, sugar beets, timothy, vegetable and vetches

2. Agropyrons, Bermuda grass, brome grass, crested dogs tail, meadow foxtail, sudan grass, sweet vernal, and tall meadow oat grass.

3. Bent grasses, Dallis grass, Ky. bluegrass, and other Poa spp. orchard grass, redtop, and Rhodes grass

4. Special mixtures

5.00

(b) For Germination Tests

1. All seeds listed under
(2) also Orchard grass, red top, and Rhodes grass.

3. 2. Bent grasses, Dallis grass, Ky. bluegrass, and other Poa spp. and Rhodes grass.

5. 2. Bent grasses, Dallis grass, Ky. bluegrass, and other Poa spp. and sugar beet (sprout test). \$1.50

(c) Examination-for weed seeds.

\$1.00

(d) Identification

\$5.00

(e) Official sampling by request. A charge of \$1.00, plus traveling expenses of inspector and regular charges for test or tests requested.

(f) Any seed not listed will be charged fee in appropriate class above.

ENFORCEMENT

State Dept of Agriculture, Bureau of Field Crops, L. M. Jeffers, Chief.

REGULATIONS

(1) Hard Seed—It is not permissible to include the hard seed as a part of the germination percentage. The percentage of hard seeds may be stated separately.

(2) Label statements shall be in not less than 7 point type or written in ink.

(3) Common name not sufficient for:

(a) Mustards used as cover crops. Both common name and specific name are required.

(b) Ryegrass—The common name origin shall be given.

(c) "Vetch" not sufficient, give variety name also.

(4) Mixtures and special mixtures. Agricultural seeds shall be named on the label in order of their preponderance in the mixture. If a component is less than 5% of a special mixture its name must not be included unless accompanied by the actual percentage. Naming a special mixture after one of its component parts is not permissible unless the percentage of pure seed of the kind named be stated on the label

CONNECTICUT

Act of 1937

(a) 1 seed in each 5 grams.

(See page 106, group A.)

(b) 1 seed in each 25 grams.
(c) 1 seed in each 100 grams.

5. Percentage of germination together with month and year of test.

6. Full name and address of vendor.

Name of seed.

Percentage of purity.

Percentage of weed seeds.

Name and number per ounce of noxious weeds present singly or collectively in excess of:

S. Percentage of germination together with month and year of test.

6. Full name and address of vendor.

Mixtures of Agricultural seeds of not more than 2 kinds of seeds.

1. That such seed is a mixture.

- Name and approximate percentage by weight of each kind of Agricultural seed present in excess of 5% of the total mix-
- Percentage of weed seeds.

Percentage of weed seeds.
 Name and number per ounce of each noxious weed present singly or collectively in excess of one seed in each 15 grams.
 Percentage of germination of each Agricultural seed present in excess of 5% of

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McCREA



POLE BEANS

McCREA SEED COMPANY, INC. SANTA BARBARA CALIFORNIA

QUALITY SEEDS

Growers

Wisconsin Seed Barley Certified Seed Corn Hybrid Seed Corn

Distributors

Northern Grown Clovers Hardy Alfalfas Reed Canary Grass Canadian Bromus

CAR LOTS OR LESS WE SOLICIT YOUR INQUIRIES

L. L. OLDS **Seed Company MADISON**

WISCONSIN

WHOLESALE GROWERS GARDEN SEED

BEET CARROT **CELERY** LETTUCE **ONION** SALSIFY

> Growers of Private Stocks. Correspondence Solicited.

Braslan Seed Growers Company, Inc.

San Jose, Calif.

Cable Address "BRASLAN"

the total mixture, together with month and

year tested.

6. Full name and address of vendor.

(C) Special Mixtures.

1. That such seed is a mixture.
2. Name and percentage by weight of each kind of seed present in the mixture.
3. Percentage by weight of weed seeds.
4. Percentage by weight of inert matter.
5. Name and number per ounce of each noxious weed, singly or collectively in excess of one seed in 15 grams.
6. Full name and address of vendor.

(D) Vegetable seeds. Each separate con-

tainer.

The kind and variety of seed.
 Percentage of germination together with year tested.
 Name and address of packetor or vendor.

NOXIOUS WEEDS

Quack grass—Agropyron repens; dodder—Cuscuta spp.; Canada thistle—Cirsium arvense;

plantain—Plantago spp. (includes buckhorn); hawkweed—Hieracium spp.; curled dock— Rumex crispus; wild mustard—Brassica arvensis and other Brassica species.

SEED LABORATORY

Conn. Agricultural Experiment Station, New

E. M. Stoddard, Analyst in Charge.

E. M. Stoddard, Analyst in Charge.

Tests—Any citizen of Conn. may send for test a maximum of 5 germination tests or 1 purity test within a given calendar month. Samples for labeling purposes not accepted.

ENFORCEMENT

is under the Commissioner of Agriculture, Olcott F. King, State Office Building, Hartford. Francis H. Adams—Chief Inspector. Conn. Dept. of Agriculture has established 3 voluntary grades for lawn grass. The use of these grades is limited to Connecticut dealers, but is not obligatory on the but is not obligatory on them.

COLORADO

As Amended In 1921, 1925, and 1929

INFORMATION REQUIRED ON ANALYSIS TAGS

	SEEDS
	Kind Variety
	Pure Seed %
	Germination %
	Grown inLocality (If in Colo.)
\supset	Noxious Weeds: Name and Number per pound, in excess of 90 seeds
	pound
	Name (Seller)
	Address

(A) Agricultural Seeds-5 pounds or

(B) Mixtures of Agricultural seeds as

above in A.

(C) Vegetable Seeds—Law does not apply except to "Vine Seeds."* Vine seeds—Label 5 pounds or more.

seeds—Label 5 pounds or more.

1. Name.
2. State or foreign country where grown, if in Colorado, the locality. Or plainly mark "unknown."
3. Cantaloupe seed saved from cull piles and melons left in field after shipping shall be plainly marked "cull seed."
4. Name and address of vendor.

""Vine Seeds"—includes all varieties of cucumbers, cantaloupes, muskmelons, honeydews, casabas, pumpkins, squashes, and watermelons.

NOXIOUS WEEDS

Barley, wild, or squirrel-tail grass (Hordeum jubatum)
Bindweed or wild morning-glory (Convolvulus arvensis)

Cheat (Bromus secalinus)
Clover, hop (Trifolium procumbens)
Cockle (Saponaria vaccaria, syn. Vaccaria
vaccaria; and Agrostemma githago)
Crabgrass (Digitaria ischaemum, Digitaria
sanguinalis; syn. Syntherisma ischaemum,
Syntherisma sanguinalis)
Dodders (any variety) (Cuscuta pentagona,
C. indecora, C. planiora, C. epilinum)
Mustard, wild (any variety) (Brassica spp.)
Oats, wild (Avena fatua)
Plaintains (any variety) (Plantago lancelata,
P. major, P. rugelii)
Poverty weeds (any variety) (Iva axillaris,
Franseria tomentosa, F. discolor)
Sowthistle (Sonchus arvensis)
Thistle, Canada (Cirsium arvense)

SEED LABORATORY

At Colorado Agricultural Experiment Station, Fort Collins, Colorado.
Bruce J. Thornton, Assoc. Bot. in Charge.
Helen Kroeger, Analyst.
The per cent of hard seed may be specified on the label, but must not be added to the germination.

DELAWARE

Law of 1929

INFORMATION REQUIRED ON ANALYSIS TAG.

- (A) Agricultural seeds. Every lot of 10 pounds or more.
- (b) One in 25 grams.
 (c) One in 100 grams.
 4. Percentage of germination together with month and year tested.
 5. Name and address of vendor.
- (B) Mixtures exempt except noxious clause (See No. 3 above).
- Name.
 Percentage of pure seed.
 Name and number per ounce of each noxious weed seed present in excess of:
 (a) One in each 5 grams.
 (See page 106, group A.)

 Clause (See 110. 3 above).

 Vegetable Seed not under the law except canning house peas which are listed as agricultural seeds.

NOXIOUS WEEDS

Quack grass-Agropyron repens; Canada thistle —Cirsium arvense; dodders—Cuscuta species; violation otherwise le wild mustard—Brassica arvensis; wild oats—Avena fatua; orange hawkweed—Hieracium au-

Trantiacum.

Dodder in excess of 30 per ounce is prohibited in lespedeza.

STOP SALE AND SEIZURE
The State Board of Agriculture may cause
to be seized and held any lot of agricultural

seed or mixtures of the same found to vio-late any of the provisions of this Act until the law has been complied with or said seed violation otherwise legally disposed of.

State Board of Agriculture, Dover.
John L. Clough, Analyst.
Purity and germination tests 25 cents each.

ENFORCEMENT

State Board of Agriculture, Dover.

FLORIDA

Law of 1941 and Regulations

INFORMATION REQUIRED ON ANALYSIS TAG OR CONTAINER

(A) Agricultural Seeds (Unmixed). Every lot.

Agricultural Seeds (Unmixed). Every lot.

1. Commonly accepted name of:
(a) Kind or
(b) Kind and variety or
(c) Kind and type.
2. Lot number or other lot identification.
3. Percentage of purity.
4. Percentage of inert matter.
5. Percentage of weed seeds. Prohibit if in excess of 3%, Carpet grass 5%.
6. Percentage of other agricultural seed.
7. Percentage of:
(a) Germination exclusive of hard seed.
(b) Hard seed.
(c) Month and year of test. The test for germination shall have been completed within a 12 month period exclusive of the month in which it was completed.
Following (a) and (b) "Total Germination and Hard Seed may be given if desired."
8. Origin of alfalfa, red clover, and field corn, if unknown it must be so stated.
9. Name and address of person who labeled seed, or who sells, offers, or exposes said seed for sale.
10. Name and number of each kind of noxious weed seed per ounce in groups B1 and B2 and per pound in B3 and B4 when present singly or collectively in excess of:
a. I seed in 5 grams. (See page 106, group B)
b. 1 seed in 10 grams.

group B)

b. 1 seed in 10 grams. c. 1 seed in 25 grams. d. 1 seed in 100 grams.

(B) Mixed agricultural seed. Every lot.

Same as for unmixed seed except that it must be called "Mixed" or a "Mixture" and the information required under items (A) 1, 3 and 7 shall be given for each agricultural seed component present in excess of 5%, in the order of its predominance.

(C) Vegetable seeds. Every lot.

1. Name of kind and variety.
2. For seed which germinates less than the standard last established by the Commissioner of Agriculture.
(See page 102 for standards)
(a) Percentage of germination, exclusive of hard seed.
(b) Percentage of hard seed.
(c) Month and year of test. The test shall have been completed within a 12 month period exclusive of the month in which the test was completed.
(d) The words "BELOW STANDARD" in not less than 8-point type.
(Provided no seed shall be sold which falls more than 20% below the established standard.)
3. Name and address of the person who labeled seed, or who sells, offers, or exposes said seed for sale.

Prohibits the Sale, Offering or Exposing for Sale of:

Agricultural or vegetable seeds unless the test for germination shall have been completed within a 12 month period exclusive of the month in which test was completed. Seed containing in excess of 500 noxious weeds per pound.

Seeds containing in excess of 3% of weeds, Carpet grass 5%.

Agricultural seed except grasses, unscarified legumes such as clovers, alfalfa, Alyce clover, crotalaria, chickpea, and kudzu, garden seed listed in The Standards for Germination, and seed released by the United States Customs, if the germination percentage is below 60%.

Seeds which fall 20% below the established germination standards.

NOXIOUS WEEDS

Garlic or wild onion (Allium vineale).
Bermuda grass (Cynodon dactylon, except when sold as such).
Quack grass (Agropyron repens).
Dodder (Cuscuta species).
Johnson grass (Sorghum halepense, except when sold as such).
Nut grass (Cyperus rotundus).
Canada thistle (Cirsium arvense).
Corn cockle (Agrostemma githago).

"STOP SALE."

"Stop Sale" notice or order may be issued and enforced by the Commissioner of Agriculture or his authorized agents to the owner or custodian of any lot of agricultural or vegetable seed which he finds or has good reason to believe is in violation of any of the provisions of this act which will prohibit further sale, barter or exchange of such seed until the Commissioner is satisfied the law has been complied with. After receiving confirmation that the seed does not comply with the act the owner or custodian shall have 15 days in which to comply with the law or withdraw the seed from sale.

SEIZURE OF SEED.

If for a period of 15 days, after having received the "stop sale" notice, the owner or custodian of the seed has failed to comply with the law or to withdraw such seed from sale the Commissioner shall be authorized to seize and hold said lot of seed which shall, after the expiration of 15 days from the date of seizure, be destroyed or disposed of by the Commissioner in such manner as he shall by regulation prescribe.

SEED LABORATORY

Fees for tests for persons
Florida:
The fees shall be the same as those charged
by Commercial analysts. For example:
Oats \$1.50
Rye, wheat, and similar grains \$1.00
Grasses \$3.00

ENFORCEMENT

Commissioner of Agriculture, Nathan Mayo. Department of Agriculture, Tallahassee. Supervising Inspector, Phil S. Taylor.

Registration and license fees.

gistration and license fees.

(A) Every person, before selling, offering or exposing for sale any agricultural or vegetable seeds, or mixtures thereof, other than packaged seed, shall

1. Register with the Commissioner as a seed dealer.

2. Give number and location of each place of business at which such seed is sold, offered or exposed for sale.

3. Pay the Commissioner

(a) \$1.00 if retailer, for each place of business.

(b) \$25.00 if wholesaler, or wholesaler and retailer for each place of business where seeds are sold, offered or exposed for sale at wholesale, or at wholesale and retail, and \$1.00 for each place of business at which seeds are sold offered or exposed for sale at retail only.

4. Such registrations shall be renewed July 1st of each year at the same fee.

(B) When vegetable seeds are sold or consigned to or placed with any person for sale in packets or packages of 8 ounces or less, each box or container of not exceeding 72 dozen such packets or packages of vege-



AMERICA'S SAFEST GROWERS

California and Colorado

SEEDS

Cucumber Cantaloupe

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Squash

Pumpkin, etc.

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Modesto

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Colorado

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ARIZONA GROW

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BERMUDA GRASS SEED a Specialty

Write for Samples & Prices

E. F. SANGUINETTI

Established 54 yrs.

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Established 1820

GROWERS and WHOLESALE DEALERS

> GARDEN SEED FLOWER SEED PEAS AND BEANS ONION SEED ONION SETS SWEET CORN

Wethersfield, Conn.

Growers

CROTALARIA-CHUFAS CATTAIL MILLET SEED CORN and SOY BEANS

OTOOTANS - PALMETTO CLEMSON - AVOYELLES MACOUPIN - MAMLOXI

All Seed Graded and A-1 Quality

We Will Appreciate Your Inquiries for Sample and Prices

Wholesale Only

Riemers' Farms

ELBERTA

ALABAMA

table seeds, or vegetable and flower seeds, shall have attached thereto an inspection fee stamp furnished and secured from the Commissioner, for which a fee of 25c shall be

REGULATIONS

paid.

(a) Analysis tags for agricultural seed shall be not less than a No. 5 standard tag—size 43/4×23/4 inches.

(b) All information required on the analysis tag shall be placed on one side of the tag without intervening matter, and no other information shall be placed on this side with the analysis. The analysis shall be complete and total 100%.

(c) Abbreviation of the name of the variety and the kind of seed on the analysis tag is prohibited.

(d) Modifying words or phrases shall not be used in connection with the variety (as for example "type," "for forage purposes," etc.), nor shall group names be used as variety names.

(e) Seed dealers earrying in stock grains or other seeds, which are intended for feeding purposes and not for planting, shall affix to each bag, parcel, or container a tag stating

1. Kind and net weight of the grain.

2. In plain, legible type the words: "The grain in this container is intended for feeding purposes only and will not be sold for seed."

(f) New analysis tags bearing the name of the vendor, or other party responsible, shall be placed on the seed after the original test date becomes twelve months old.

(g) Records of receipt, sale and delivery of all seed by any dealer shall be kept readily accessible for examination by an authorized agent of the Department of Agriculture, and such records shall be on hand not later than 10 days after receipt of such seed, and be kept for a period of three years.

(h) Trucks and other motor conveyances transporting seed for sale, or to be sold to consumers on the public highways of Florida, shall have available for examination at any time a bill of lading, waybill, or a delivery receipt showing

1. Name of shipper or party from whom purchased.

2. If for delivery, the name and address of the party to whom the seeds

are to be delivered.

3. The kind and amount of each separate kind of seed.

4. Name of the truck driver and truck line making delivery.

(i) Seed treated with fungicides, or any substance likely to be poisonous to human beings or animals, shall show on the label the words "Poison Treated" in not less than ¼ inch face red type, and it shall be unlawful to sell such seed for use or for processing either for human or animal consumption.

(j) Seeds containing more than 200 noxious weed seeds per pound shall be labeled in red ink in not less than 12 point type "EXCESSIVE NOXIOUS WEEDS."

(k) Worthless seed (seed which falls below the limits fixed by the Florida Seed Law and the regulations governing it) may not be given away or sold for planting purposes.

(l) Oats consisting of mixed varieties shall not be sold for planting purposes.

(m) Different varieties of the same kind of seed, when in quantities of less than 5%, will be considered as other crop seed.

(n) Brand names, designs, grades, or pictures indicating a condition or quality, other than that required on the analysis tag, or indicating contradictions to any part of the analysis, shall not be permitted.

(o) No agricultural seed, except grasses, unscarified legumes such as clovers, alfalfa, Alyce clover, crotalaria, chickpea, and kudzu, garden seed listed in The Standards for Germination, and seed released by the United States Customs shall be offered for sale if the germination percentage or rate of occurrence found by analysis, test, or examination, in the administration of the act as referred to in Section 201.59 of the Federal Seed Act.

(q) The use of the disclaimer or non-warranty clause in any invoice advertising, labeling written, printed or graphic matter pertaining to any seed shall not constitute a defence, or be used as a defence in any way in any prosecution or in any proceeding for confiscation of seeds brought under the provisions of this act, or the rules and regulations made and promulgated thereunder.

GEORGIA

INFORMATION REQUIRED ON ANALY-SISTAG OR CONTAINER.

(A) Agricultural seeds. Every lot of 5 pounds or more.

Commonly accepted name of:
 Kind or variety, and
 Kind and type.

(2) Lot number or other lot identification.(3) Percentage of pure seed.

(4) Percentage of inert matter.

(5) Percentage of weed seeds. Prohibited if in excess of 2½%. Dallis grass and carpet grass 5%.

(6) Percentage of other agricultural seeds.

(7) Origin, if unknown it must be so stated.

Origin, it unknown it must be so stated.

Name and address of person who labeled the seed, or who sells, offers or exposes said seed for sale.

Name and number per pound of primary and secondary noxious weed seeds present singly or collectively in excess of:

(a) One in 5 grams (see p. 106, Group B)

(b) One in 10 grams. (c) One in 25 grams. (d) One in 100 grams.

(11) Percentage of: (Regulation)
a. Germination
b. Hard seeds
c. Date of test

(B) Mixed Agricultural Seeds. Every lot

of 5 pounds or more. Same as for unmixed seeds, except it must be called "Mixed" or a "Mixture" and the information required under items (A) 1 and 3 shall be given for each agricultural seed present in excess of 5%, in the order of its predominance.

(C) Hybrid seed corn. Every lot of 5 pounds or more.

In addition to the information required under section (A) the following additional information shall be given:

(1) Name and address of the party who grew the seed, or is responsible for the distribution.

(2) Variety and kind of foundation seed stock used in its production.
(3) Name or designation under which each lot will be sold.
(4) Length of growing season in days, from germination to maturity.

(D) Vegetable seeds. Every lot of 5 pounds or more.

(1) Name of kind and variety.

Name of kind and variety.

For seed which germinates less than the standard last established by the Commissioner of Agriculture. (See page 102 for standards.)

a. Percentage of germination, exclusive of hard seeds.

b. Percentage of hard seeds.

c. Month and year of test. Test shall have been completed within a nine month period exclusive of the month in which the test was completed.

d. Marked "BELOW STANDARD" in not less than 8-point type.

State where grown.

(3) State where grown.

(4) Name and address of person who labeled the seed, or who sells, offers or exposes said seed for sale.
(5) Seed which falls more than 20% below standard cannot be sold.

(E) Certain Tree seeds. Every lot of 5

- (Long leaf pine—Pinus palustris; slash pine P. caribaea; loblolly pine—P. taeda; short leaf pine—P. echinata).

 (1) Technical generic and specific names in official use by the United States Department of Agriculture.
- (2) State and county of origin.
- (3) Date of collection—month and year.(4) Name of collector.

(5) Percentage of purity of whole, normal seeds, with or without wings, of the species concerned, if based on seeds with wings attached it shall be so stated.
 (5) Percentage of other species if present.

Percentage of other species it present.

Percentage of germination. Test shall have been completed within a nine month period, exclusive of the month in which it was completed.

Prohibits the sale, offering or exposing for sale of any agricultural, vegetable or certain tree seeds-

(1) Unless the test for germination shall have been completed within a nine month period, exclusive of the month in which it was completed.

it was completed.

(2) Containing primary noxious weed seeds. Subject to tolerances.

(3) That have been treated with poisonous materials unless the labels are marked with ½4 inch red letters "POISON TREATED."

(4) Containing over 100 primary noxious weed seeds per pound.

(5) Containing over 200 secondary noxious weed seeds per pound.

NOXIOUS WEEDS.

Primary noxious weeds.

PROHIBITED SUBJECT TO TOLERANCES

Bindweed—Convolvulus spp.; Johnson grass—Sorghum halepensis; Wild onion or garlic—Allium vineale; nut grass—Cyperus rotundus; quack grass—Agropyron repens; Bermuda grass—Cynodon dactylon; Canada thistle—Cirsium arvense; dodder—Cuscuta spp.

Secondary noxious weeds.

Corn cockle—Agrostemma githago; coffee weed—Cirhorium intybus; darnel-Lolium temulentum; cheat or chess—Bromus spp.; sand spur—Cenchrus pauciflorus; rough pig weed—Amaranthus retroflexus; plantains—Plantago spp.; wild mustard—Brassica spp.; bitter weed—Helenium tenuifolium.

FARMERS are exempt from complying with the provisions of this act unless they are selling their seed outside the county where grown, then each container must be tagged,

grown, then each container mast be tagset, giving:

(1) Name of grower.

(2) Name of kind and variety.

(3) Calendar year harvested.

(4) If containing undesirable or noxious weeds it must be so stated. If a dealer purchases seed from a farmer in his trade territory he may sell it, complying with the same provisions as required of the farmer.

SEED LABORATORY

Department of Agricum to Agricum to the farmer.

ENFORCEMENT

Department of Agricum to Agricum to the farmer.

SHIPMENTS

Every lot of seed covered by this act being

shipped shall be accompanied by a bill of lading or other evidence giving:
(1) Name and address of consignor and con-

(2) Class and amount of each being transported.

"STOP SALE" orders shall be issued and enforced by the Commissioner of Agriculture to the owner or custodian of any lot of agricultural, vegetable or certain tree seeds which are in violation of any provisions of this act which shall prohibit the further sale of such seeds until that officer has evidence the law has been complied with. Any lot of seed, the sale of which has been prohibited as provided in this paragraph, the owner or custodian shall have the right to appeal from such order to a court of competent jurisdiction, where such seed are found, praying for a judgment as to the justification of said order, and for the discharge of such seed from the order in accordance with the findings of the court.

SEIZURE. Any lot of agricultural, vegetable

from the order in accordance with the indings of the court.

SEIZURE. Any lot of agricultural, vegetable or certain tree seeds not in compliance with the provisions of this act shall be subject to seizure on complaint of the Commissioner of Agriculture to a court of competent jurisdiction in the area in which the seed is located. If the court finds the seed to be in such violation of the act and orders its condemnation it shall be, denatured, processed, destroyed, relabeled or otherwise disposed of in compliance with the laws of the state; Provided, in no instance shall such disposition be ordered by the court without first having given the claimant an opportunity to apply to the court for the release of said seed or permission to process or relabel it to bring it into compliance with the act.

HYBRID SEED CORN—the term means the

HYBRID SEED CORN—the term means the first generation seed of a cross produced by controlling the pollination, and by combining two, three, or four inbred lines, or by combining one inbred line or a single cross with an open pollinated variety. Hybrid designations shall be treated as variety names.

Department of Agriculture, Atlanta. Ercelle Fuller, analyst in charge.

Department of Agriculture, Atlanta, Georgia. Tom Linder, Commissioner of Agriculture. C. Reynolds Clark, State Chemist.

Buy Direct from the Grower

Get Quality Seed That You Can Be Sure of



Our Stocks Are Inbred 43 YEARS OF EXPERIENCE

WATERMELON Crotalaria Beggarweed

D. H. GILBERT SEED CO., Inc. Monticello, Florida

YOU MUST TAKE ADVANTAGE OF CHANGING CONDITIONS

To Hold Your Business **And Increase Profits**

World's Standard Grinder for Capacity, Economy, Durability

GREATER efficiency, more speed, bigger capacities, lower operating cost, to beat competition—that's the "JAY BEE" all-steel hammer mill.

For nearly a quarter century—the Bossert made "JAY BEE" mill outlasts 'em all, outgrinds 'em all. Heavy boiler-plate and alloy-steel construction makes the "JAY BEE" almost unbreakable. It grinds more feed at less cost per ton than any other hammer mill made.

From the finest whole wheat flour and corn meal, to every grain and roughage grown, the "JAY BEE" grinds to any degree of fineness, always cool, and uniform. It costs less to operate and maintain, and is

practically free from repairs over a long period of years.
Sizes and styles from 12 H.P. to 200 H.P. with belt,
V-belt, and direct-connected drives.

MAINTAIN SERVICE CONTACT WITH FARMERS

Seedsmen and custom millers have added greatly to their income. They fortify their local business with the "JAY BEE" Portable. They make any kind of feed from the farmer's crops right on his farm. This brings in new business, and helps hold and increase their sales of mixed feeds, concentrates, minerals, and molasses.

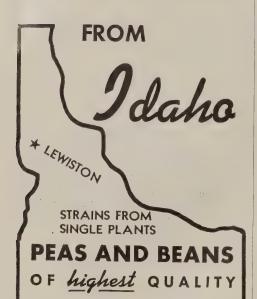
Investigate the profit possibilities at once. Write for descriptive literature, prices, terms, etc.

J. B. Sedberry, Inc., Dept. 78, Franklin, Tenn.—Utica, N. Y.

JOHN J. WOODS & SONS, JAY BEE SALES CO., KANSAS CITY, MO.

J. B. Sedberry Co., 2608 So. Wells St., Chicago, Ill.—A. E. Thompson Co., 718 Washington Ave., N., Minneapolis, Minn.—T. G. Holland, 474
Fairfax Road, Drexel Hill, Pa.—Jay Bee of Texas, 705 Ross Ave., Dallas, Texas—Jay Bee Sales Co., 395 Broadway, New York—Jackson, Tenn.—
Moultrie, Ga.—P. O. Box 853, Winston-Salem, N. C.—436 Starks Bldg., Louisville, Kentucky—The Lamiell Co., Greenwich, Ohio.

SEEDS



MARK MEANS CO.

LEWISTON, IDAHO

EXPERTLY GROWN

CAREFULLY ROGUED

PROPERLY PROCESSED SPOT OR FUTURES

Idaho Grown Seeds

SHIPPERS AND GROWERS

- ALFALFA
- RED CLOVER
- ALSIKE
- SWEET CORN
- FIELD CORN
- ONION SEED
- LETTUCE SEED
- LADINO WHITE **CLOVER**

EDGAR L. OAKES & CO. CALDWELL

IDAHO

IDAHO

Law of 1931, Amended 1939

INFORMATION REQUIRED ON ANALYSIS TAG OR CONTAINER.

(A) Agricultural Seeds. Every Lot.

- Name of seed.
 Percentage of pure seed.
 Name of noxious weeds present.
 Germination of non-leguminous plants, together with the date of test.
 Year grown.
- Where grown
- 7. Name and address of vendor,

B) Mixtures. Every Lot.

- 1. That such seed is a mixture.
- Name of each kind present in proportions of SEED LABORATORY AND TESTS 5% or more.

- Name and number of noxious weeds.
 Percentage of inert matter.
 Percentage of germination of non-leguminous plants together with date of test.

(C) Vegetable Seed.

Classed as agricultural seeds; label as under (A) above.

(D) Flower Seeds.

Classed as agricultural seeds; label as under (A) above.

NOXIOUS WEEDS

Prohibit any: Quack grass—Agropyron repens; Canada thistle—Carduus arvensis; buckhorn plantain—Plantago lanceolata; per-

ennial sow thistle—Sonchus arvensis; hoary cress—Lepidium draba, Lepidium repens, Hymenophysa pubescens; wild morning-glory—Convolvulus arvensis and Convolvulus sepium; spurge—Euphorbia corollata, Euphorbia esula, Euphorbia cyparissias; yellow toad flax—Linaria vulgaris; perennial ground cherry—Physalis subglabrata; Russian knapweed—Centaurea picris, Prohibited in greater proportion than one seed of any or all to 10,000 seeds of the agricultural seed being offered for sale. Wild mustard—Brassica spp.; wild oats—Avena fatua; dodder,—Cuscuta spp.; corn cockle—Agrostemma githago; puncture vine—Tribulus terrestris; frenchweed—Thlaspi arvense.

Seed Laboratory, College of Agriculture, Boise, Idaho.
Mr. E. K. Chaffee, Seed Analyst.
Fees—Purity tests, 25 cents; Germination tests.

ENFORCEMENT

H. L. Spence, Jr., State Seed Commissioner, Agronomy Extension Service, University of Idaho, Boise, Idaho.

SCREENINGS

All screenings, removed during the process of cleaning field, flower or garden seed containing any seeds of noxious weeds shall be destroyed or devitalized before leaving the place where cleaning occurred.

ILLINOIS

Law of 1941

INFORMATION REQUIRED ON ANALYSIS TAG OR CONTAINER.

(A) Agricultural Seeds. Every lot.

- (1) Commonly accepted name of:
 - a. Kind or,
 - b. Kind and variety or,
 - c. Kind and type.
- (2) Lot number or other lot identification.
- (3) Percentage of pure seed.
- (4) Percentage of inert matter.
- (5) Percentage of weed seeds. Prohibited if in excess of 2%.(6) Percentage of other agricultural seeds.
- (7) Percentage of:
 - a. Germination, exclusive of hard seed.
 - b. Hard seeds.
 - Month and year test was completed. The test for germination shall have been completed within a nine month period, exclusive of the month in which test was completed.

 - Following a. and b. the additional statement "Total germination and hard seed" may be given if desired.
- (8) Origin of alfalfa, red clover and field corn (except hybrid), if unknown it must be so stated.
- Name and address of the person who labeled the seed, or who sells, offers or exposes said seed for sale.
- (10) Name and number of each kind of secondary noxious weeds, per ounce in groups B1 and B2 and per pound in B3 and B4, when present singly or collectively in excess of:

 1 in 5 grams.

 (See page 106, Group B)

- 1 in 10 grams. 1 in 25 grams. 1 in 100 grams.

(B) Mixtures of Agricultural Seeds. Every lot.

Same as for unmixed agricultural seed, except that it must be called "Mixed" or a "Mixture" and the information required under items (A) 1, 3 and 7 shall be given for each component present in excess of 5% in the order of its predominance.

(C) Vegetable Seeds. Every lot.

- (1) Name of kind and variety.
- (2) For seed which germinetes less than the standard last established by the Director of Agriculture. (See page 102 for standards.)
 - a. Percentage of germination, exclusive of hard seed.
 - b. Hard seeds.
 - c. Month and year test was completed. The test for germination shall have been completed within a 9 month period exclusive of the month in which the test was completed.

 d. The word "BELOW STANDARD" in not less than 8-point type.

 e. Name and address of the person who labeled the seed, or who sells, offers or exposes said seed for sale.

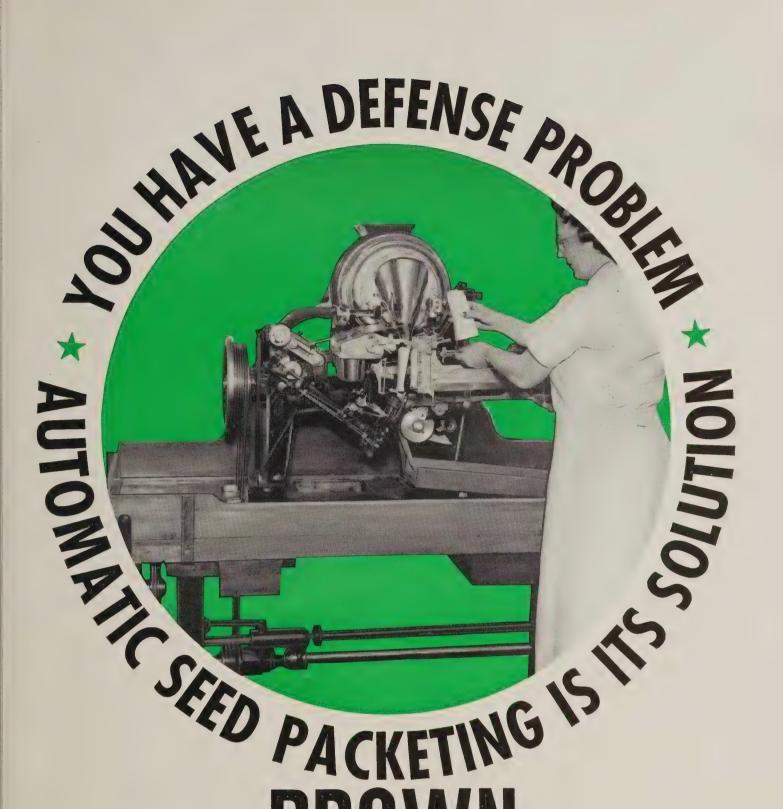
Prohibits the sale, offering or exposing for sale any agricultural or vegetable

- (1) Unless the test for germination has been completed within a nine month period, exclusive of the month in which the test was completed.
 - Agricultural Seed Only.
- (2) Agricultural seeds containing in excess of 2% weeds.
- (3) Agricultural seeds containing primary noxious weed seeds, singly or collectively, in excess of 1 in 50 grams of the seeds in group B1 and B2 and in excess of 1 in 150 grams of the seeds in group B3, and in excess of 1 in a pound of the seeds in group B4, page 83. (Vegetable seeds exempt.)
- (4) Agricultural seeds containing secondary noxious weed seeds, either singly or collectively, in greater proportion than 1 to 1,000 agricultural seeds.

NOXIOUS WEEDS.

PRIMARY NOXIOUS WEEDS

PROHIBITS IF IN EXCESS OF 1 IN 50 GRAMS, 1 IN 150 GRAMS AND 1 IN A POUND.



ALREADY, perhaps, you are affected by a labor shortage and higher wages. If you don't protect your seed packeting costs, you must face competition unfavorable to profits. Prepare for an early and increased demand for seeds. More and more defense gardens will be planted. NOW, as never before, you need a

AUTOMATIC
SEED PACKET FILLING
AND SEALING MACHINE

BROWN-made SEED PACKETS

LET one machine, one attendant and only a few square feet of floor space do the work of several experienced hand workers. Low machine leasing rates and favorable packet prices will protect you. Write NOW for particulars. The Brown Bag Filling Machine Company, Fitchburg, Mass.

customers return

Mear

Mear

for the Seed the

OEPENDA





HYBRID CORN

FIELD CORN ENSILAGE CORN SWEET CORN

All Standard Varieties Open Pollinated Corn



Your Best Insura

hat yields better crops-O&M

A feeling of confidence goes with the planting. Thousands play safe by buying it every season. They know it has no equal.



M&Q Seed Oats

SWEDISH TYPE WHITE STAR COLUMBIA GRAY LENROC VICTORY

O & M Northern Grown Oats produce healthy, vigorous plants —heavy grain, thin shuck and stiff straw, 70 to 90 bu. per acre reported. No smut or weed seed. Cleaned over 4 mills. Should be sown 1/2 bu. per acre less than common seed.

SEED BARLEY

GARDEN SEED

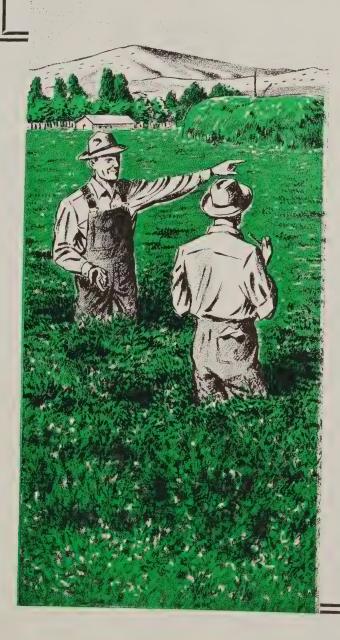
GRASS SEED

nce is O&M Seed

Write for Prices Car Lots or Less

This is the ALFALFA SEED that

- -sells fast!
- -repeats often!
- -nets most profit!





What's good for your customers is good profit for you. BLACKFOOT Brand Idaho Grimm Alfalfa Seed is grown to satisfy the farmer who buys from you . . . brings him back for other purchases.

Consistent, year after year advertising in farm papers has created a demand and acceptance for BLACKFOOT Brand as the best alfalfa seed on the market.

Rigid growing regulations and climate keep BLACKFOOT quality uniformly high . . . make it your buyers' most profitable alfalfa.

Sold in 30, 60, 150 pound, state certified bags. Order NOW from

IDAHO GRIMM

Alfalfa Seed Growers Association
BLACKFOOT, IDAHO

Canada thistle—Cirsium arvense Perennial sow thistle—Sonchus arvensis Field bindweed—Convolvulus arvensis Leafy spurge—Euphorbia esula Russian knapweed—Centurea pieris Hoary cress—Lepidium draba.

SECONDARY NOXIOUS WEEDS

PROHIBITS IF IN EXCESS OF 1 to 1,000 AGRICULTURAL SEEDS.

Curled dock—Rumex crispus
Wild garlic—Allium spp.
Dodders—Cuscuta spp.
Bullnettle—Solanum carolinense
Buckhorn—Plantago lanceolata Quack grass—Agropyron repens
Wild carrot—Daucus carota
Wild Mustard—Brassica spp.
Johnson grass—Sorghum halepense
Ox-eye daisy—Chrysanthemum leucanthe-

STOP SALE AND SEIZURE

TOP SALE AND SEIZURE

The authorized agents of the Department of Agriculture shall seize or prohibit the sale of any lot of agricultural or vegetable seed being sold, offered or exposed for sale which appears to be in violation of this act or to fall below the statement on the label or tag. Said seed shall not be sold, offered or exposed for sale for seeding purposes until it is released by the Department of Agriculture, provided that the right to appeal to a court of competent jurisdiction to review any order, rule or regulation shall exist in all cases. Any seed, seized in accordance with the provisions of this act, found by a court of competent jurisdiction to be in violation of any of the provisions thereof may be disposed of by the Department of Agriculture. by the Department of Agriculture.

By sale for the purpose of recleaning.

By delivery to the owner, provided he has appeared as claimant thereof and paid the court costs and fees and all other necessary expenses in connection with the seizure of the seed, and has executed and delivered a bond, with good and sufficient sureties, conditioned that the seed will not be

sold or disposed of contrary to any provisions of this act c. By destruction,

LABORATORY AND ENFORCEMENT

State Department of Agriculture. Charles H. Keltner, Superintendent of Division of Plant Industry, Springfield. Tests—Residents permitted 5 free tests for both purity and germination.

Tests of clover, alfalfa, lespedeza, timothy, vetch, sudan grass, rape, and millet charges shall be 50 cents for purity and 50 cents for germination. Chaff grasses \$1.00 for purity, and \$1.00 for germination. Uncleaned redtop not permitted on free list purity and germination \$5.00 germination \$5.00.

Regulations (December 17, 1940)

Regulation I

Seed in storage, in bins or other containers in sales room, storeroom or warehouse, unless otherwise labeled, shall be considered offered or exposed for sale for seeding purposes in Illinois and shall be subject to the provisions of the seed law.

Regulation III

Agricultural seeds for seeding purposes stored in bulk or bins or tanks shall be labeled by attaching a tag or label to the bin at the entrance. Each portion of seeds sold from this bulk for seeding purposes shall be accompanied by an exact copy of the label attached to the container of the bulk lot.

Regulation VIII

Mottled seed in White Blossom Sweet Clover. When mottled seed is less than 5%, the percentage shall be shown on the label, but may be included in the percentage of purity. When mottled seed is equal to or in excess of 5%, such a mixture shall be labeled "Sweet Clover" or "mixed Sweet Clover."

"Sweet Clover" or "mixed Sweet Clover."

Regulation 1X

Hybrid Corn. Definition: "Hybrid Seed Corn is the seed of corn resulting from the first cross fertilization involving inbred lines of corn and/or their combinations, the inbred lines having been self-fertilized until they are reasonably pure." reasonably pure.

Our Specialty

REDTOP TIMOTHY

Shippers in Car Lots, Mixed Cars or Truck Loads of

> All Field Seeds First Handed

DIETERICH, ILLINOIS

Largest Seed Corn Drying Storage Plant



Our new plant located at San Jose, Illinois (25 miles south of Peoria), has a drying capacity, normal season, of 145,000 bushels. Seed storage capacity 184,000 bushels. 64 drying bins holding from 385 bushels to 885 bushels each. Equipped with the newest and best machinery we can buy. Thirty-four years' experience in producing high-yielding seed corn. 20 leading hybrids, mostly certified. We produce our own inbreds, single crosses and four-way crosses.

Flat grades \$3.25 to \$7.50 per bushel. Round grades, \$3.00, subject to dealers liberal discount.

Send for new catalog. Agents wanted: some good territory still open.

KELLY SEED COMPANY

PEORIA, ILLINOIS

SAN JOSE, ILLINOIS

12 edtop



Ging & Company

FARINA ILLINOIS

GEO. KELLER & SONS

Quincy, Ill.

K Brand Seeds

Wholesale Dealers

- **Red Clover**
- Mammoth Clover
- Timothy
- Alsike
- Alfalfa
- Sweet Clover
- Lespedeza

OSTBERG SEED CO.

7301 Woodlawn Avenue

Telephone Dorchester 0134

CHICAGO

Wholesalers of Imported and Domestic

GRASS SEEDS

Blue Grass Red Top

Clovers Rye Grass

Fancy Grasses Lawn Mixtures To sell seed of corn labeled "Hybrid Corn" without giving proper and indisputable evidence that it complies with the above definition shall constitute a violation of the Illinois

Seed Law. Regulation X
Certified and Registered Secd. Such seed must have been produced and labeled in accordance with the procedures and in compliance with the rules and regulations of an officially recognized seed-certifying agency. The Illinois Crop Improvement Association is recognized as the certifying agency in Illinois

Regulation XI
Recleaned Seed. Agricultural seed shall be considered recleaned if the total inert matter and weed seeds shall not exceed 20% of the sample in the case of Bluegrasses; 15% in case of Red Top, Bent Grasses, Orchard

Grasses and Brome Grass; and 5% in all other agricultural seeds.

Regulation XIV

Canada Thistle, European Bindweed and Perennial Sow Thistle. Inasmuch as the above named weeds are prohibited in greater numbers than 1 to 50 grams, it is required that the presence of the seeds of the above, in the proportion of 1 to 50 grams, be shown on the label.

proportion of 1 to 50 grams, be shown on the label.

Section 40 of the Criminal Code of the Illinois statutes prohibits the bringing into this state, seeds of Canada Thistle, Perennial Sow Thistle, European Bindweed, Russian Knapweed and Leafy Spurge.

Regulation XV

The name of the Illinois Department of Agriculture shall not be used in any manner for advertising purposes in connection with the sale of agricultural seeds.

INDIANA

Law 1941 and Amendments and Rulings to January 1, 1939

INFORMATION REQUIRED ON ANALYSIS TAG.

(A) Agricultural Seeds. Use Indiana Tags A or B. Every lot of one pound

known."

Name and address of person or firm who labeled seed, or who sells, offers or exposes seed for sale.

Name and number of secondary noxious weeds per pound. If present in excess of ½ of 1 percent seed is prohibited from sale.

(B) Mixtures. Use Indiana Tag C. Every lot of one pound or more.

Same as for unmixed agricultural seeds except that it must be called a "Mixture" and the information required under items (A) 1, 2 and 6 shall be given for each agricultural seed present in excess of 5%. The locality where grown is not required.

(C) Vegetable Seed. Use Indiana Tag B. Every lot of one pound or more.

All garden and truck crops included under agricultural seeds. See (A) above.

Label as above under (A).

Prohibits the Sale, Offering or exposing for Sale of:

Agricultural or vegetable seed containing Primary Noxious Weeds subject to tolerances.
 Agricultural or vegetable seed containing more than ½ of one percent of Secondary Noxious Weeds.
 Agricultural or vegetable seeds containing more than 3% of weeds.

NOXIOUS WEEDS

Primary Noxious Weeds

PROHIBITS SEED CONTAINING ANY SUBJECT TO TOLERANCES.
Canada thistle (Cirsium arvense).
Field bindweed (Convolvulus arvensis).
Johnson grass (Sorghum halepense).
Perennial sow thistle (Sonchus arvensis).
Quack grass (Agropyron repens).
Wild garlic (Allium vineale).

Secondary Noxious Weeds

PROHIBITED IF PRESENT IN EXCESS OF ½ OF ONE PERCENT.

Bitter wintercress (Campe barbarea).
Bracted plantain (Plantago aristata).
Buckhorn (Plantago lanceolata).
Common plantain (Plantago major and rugelii).

gelii).
Corn cockle (Agrostemma githago).
Curled dock (Rumex crispus).
Dodder (Cuscuta spp.).
Field peppergrass (Lepidium campestre).

Horsenettle (Solanum carolinense). Mustard (Brassica arvensis). Oxeye daisy (Chrysanthemum leucanthemum).

Red sorrel (Rumex acetosella). Wild carrot (Daucus carota).

CONDEMNATION OF SEED.

NDEMNATION OF SEED.

Any lot of agricultural seed not in compliance with the provisions of this act shall be subject to seizure on complaint of the state seed commissioner to a court of competent jurisdiction in the area in which the seed is located. In the event that the court finds the seed to be in violation of the act and orders the condemnation of said seed, it shall be denatured, processed, destroyed, relabeled or otherwise disposed of in compliance with the laws of the state: Provided, That in no instance shall such disposition of said seed be ordered by the court without first having given the claimant an opportunity to apply to the court for release of said seed on promise to process or relabel to bring it into compliance with the act.

Y GROWER of seed can sell his seed for

bring it into compliance with the act.

ANY GROWER of seed can sell his seed for sowing purposes, without labeling, if he has not advertised it other than by word of mouth or notice placed before his farm, provided he makes the sale and delivers the seed on his premises to the purchaser himself, provided the seed contains no Primary Noxious weeds, not more than ½ of one percent Secondary Noxious weeds, and not more than 3 percent of all weeds.

LABORATORY AND TESTS

Seed Laboratory at Lafayette is under the State Chemist and Seed Commissioner, cooperating with the U. S. Department of Agriculture. H. R. Kraybill, State Chemist and Seed Commissioner.

E. R. Clark, Associate Seed Technologist, U. S. Department of Agriculture.

Miss Regina Schulte, Analyst, U. S. Department of Agriculture.

Number of free tests for any one firm or person limited to two samples during any one month.

month.

ENFORCEMENT AND REGULATIONS

All agricultural seed shipped or delivered in the State of Indiana, must have attached to each bag of one pound or more an Indiana State Label properly filled out.

Tags are purchased from the Seed Commissioner as follows:

Style "A"—The orange colored tag, for unmixed alfalfas, clovers or grasses.

Style "C"—The green colored tag, for mixed alfalfas, clovers or grasses.

Tags for 100 pounds—8 cents each Tags for 75 pounds—6 cents each Tags for 75 pounds—4 cents each Tags for 25 pounds—2 cents each Style "B"—The uncolored manila tag for cereals, garden and truck crop seeds.

cereals, garden seeds.

Tags for 200 pounds—8 cents each Tags for 175 pounds—7 cents each Tags for 150 pounds—6 cents each Tags for 150 pounds—6 cents each Tags for 100 pounds—4 cents each Tags for 75 pounds—3 cents each Tags for 75 pounds—3 cents each Tags for 50 pounds—2 cents each Tags for 50 pounds—1 cent each Cags for 50 pounds—1 cent each Tags for 50 pounds—1 cent each Fuling No. 1. In the case of leguminous seeds containing hard seeds, the actual percentage of germination should be given and may be followed by the percentage of hard seeds, but hard seeds cannot be included in the germination Rulling No. 2. Wholesale seeds

Ruling No. 2. Wholesale seedsman is required to attach at least one Indiana State tag, properly filled out to each bag shipped to retailer.

The retailer is then required to attach sufficient tags to cover the net weight before offering seed for sale.

Ruling No. 3. Hybrid Corn may be so labeled only when such seed represents the first gen-eration of a cross between strains of different

parentage and involving inbred lines of corn and/or their combinations.

Ruling No. 5. Effective January 1, 1939. White blossom sweet clover seed containing more than 5% of mottled seeds must not be labeled white blossom sweet clover. Such seed may be labeled timest clover.

IOWA

Code of 1941

INFORMATION REQUIRED ON ANALY-SIS TAGS OR CONTAINER

(A) Agricultural Seeds (Unmixed) Every (G) Prohibits the sale, offering or expos-

Agricultural Seeds (Unmixed) Every lot.

(1) Name of:
(a) Kind, or
(b) Kind and variety, or
(c) Kind and type.

(2) Lot number or other lot identification.
(3) Percentage of pure seed.
(4) Percentage of inert matter.
(5) Percentage of weed seeds. Prohibited if in excess of 3%.
(6) Percentage of other agricultural seeds.
(7) Percentage of other agricultural seeds.
(8) Percentage of:
(a) Germination, exclusive of hard seed.
(b) Hard seed.
(c) Month and year tested. Test shall have been completed within a 9 month period, exclusive of month in which test was made.

Following (a) and (b) Total Germination and Hard Seed may be given, if desired.
(8) Origin of alfalfa and red clover, if unknown it must be so stated.
(9) Warning as to danger if seed has been treated with a compound poisonous to man or farm animal.
(10) Name and address of person who labeled, sells, offers or exposes seed for sale.
(11) Name and number per ounce of each secondary noxious weed in groups (B1), (B2) and (B3) and per pound in group (4) singly or collectively in excess of:
(a) 5 per ounce.

(See page 106, group B.)

(See page 106, group B.)

(b) 3 per ounce.(c) One per ounce.(d) 5 per pound.

(B) Mixed Agricultural Seed. Every lot.

Same as unmixed seed, except that the information required under items 1, 3 and 7 shall be given, for each agricultural seed component present in excess of 5%, in order of its preponderance.

(C) Vegetable Seeds Not Included Under

(D) Seed sold by the grower on his farm are exempt from detailed labeling provisions if a placard is displayed or a written or printed statement supplied purchaser giving

Percentage of germination.
 Month and year of test.
 Kind and number per ounce or pound of all secondary noxious weeds present.
 A guarantee that no primary noxious weeds are present.

(E) Information Required on labels of inoculants for leguminous plants.

(1) Kind of plants for which inoculant is to be

Amount of seed content will inoculate.
Expiry date of inoculant.
Name and address of manufacturer or laboratory of origin or of vendor if he accepts responsibility for accuracy of the information.

(F) Seed Potatoes bearing blue certification label shall be

(1) Certified and bear label with the word CERTIFIED thereon.

(2) Certified by a constituted state authority or state organization recognized by the Iowa secretary of agriculture.

ing for sale of seed if,

Contains primary noxious weed seeds, subject to tolerances.
 Contains in excess of 3% of weed seeds.
 Screenings of agricultural seed containing less than 25% viable seed not marked "NOT FOR PLANTING PURPOSES." provided the claimant of said seed having been given the opportunity to apply to said court for the release of said seed.

NOXIOUS WEEDS
PRIMARY NOXIOU ARY NOXIOUS WEEDS prohibited sub-to tolerances given in the rules and regu-

PRIMARY NOXIOUS WEEDS prohibited subject to tolerances given in the rules and regulations.
Quackgrass—Agropyron repens.
Canada thistle—Cirsium arvense.
Perennial sow thistue—sonchus arvensis.
European morning glory—Convolvulus arvensis.
Horse Nettle—Solanum carolinense.
Leafy spurge—Euphorbia esula.
Perennial peppergrass—Lepidium draba.
Russian Knapweed—Centaurea repens.
SECONDARY NOXIOUS WEEDS
Wild carrot—Dacus carota.
Sour dock—Rumex catisus.
Sour dock—Rumex altissimus.
Sheep sorrel—Rumex acetosella.
Butterprint—Abutilon theophrasti.
Mustards—Brassica spp.
Cocklebur—Xanthium commune.
Buckhorn—Plantago lanceolata.
Dodders—Cuscuta spp.
SCREENINGS, from agricultural seed subject to act, shall be prohibited from sale unless labeled, if in containers, or marked on invoice if in bulk. "NOT FOR SEEDING PURPOSES."
Screenings shall include chaff, empty florets, immature seed, weed seed, inert matter and other material removed in any way, by cleaning or processing and containing less than 25% of viable agricultural seed.
"STOP SALE" orders may be issued by the secretary of agriculture or his agent if he believes any provision of the seed act has been violated and further sale prohibited until the officer has evidence the law has been compiled with, or the seed has been removed from sales room open to the public, or an appeal from such order taken to a court of competent jurisdiction and the seed discharged from said order if in accordance with the finding of the court, the owner or custodian paying for a judgment of the state secretary of agriculture or his duly authorized agents, the court of competent jurisdiction in the area in which the seed is located shall cause the seizure and subsequent denaturing, processing, or destruction to prevent the use for sowing purposes of any agricultural seed, the sale of which is prohibited due to (1) the presence of primary noxious weeds, (2) containing in excess of 3% of weeds.

SEED LABORATORY AND TESTS

Service Laboratory—Extension Department, Iowa State College of Agriculture, Ames, Iowa. Dr. R. H. Porter, Analyst. Test fees—To Iowa residents, 30 cents per sample and up depending on kind.

ENFORCEMENT AND REGULATIONS

Department of Agriculture Inspection Laboratory—Des Moines, Iowa E. L. Redfern—Chief Chemist. Frank E. Wells—Seed Analyst.

KANSAS

Law of 1935, Amended 1939

INFORMATION REQUIRED ON ANALYSIS TAG.

(A) Agricultural Seeds. Every lot.

Commonly accepted name.
 Percentage of pure seed.
 Percentage of weed seed.

Percentage of inert matter.

Percentage of other agricultural seeds. (Regulation.)

Percentage of:

 (a) Germination, exclusive of hard seeds.
 (b) Hard seeds.
 (c) Date of test. Date cannot be over one year old.

 Where grown, if unknown, so state.
 Lot or stock number.
 Name and number per pound of all noxious weed seeds present singly or collectively at the rate of more than 1/10 of one per cent by count.
 Name and address of vendor.

Purcell Seed Co. Inc.

EVANSVILLE, IND.

SPECIALTIES:

FANCY RED TOP UNHULLED RED TOP

SOY BEANS

COW PEAS

and a General Field Seed Line

CARLOTS OR LESS

DAVENPORT SEED CO.

Headquarters

IOWA Grown TIMOTHY



Car Lots a Specialty

Hardy Alfalfas Red Clovers Alsike Sweet Clover Soy Beans Hybrid Seed Corn

317 E. 2nd St. DAVENPORT, IOWA

Headquarters

WESTERN GROWN

Kentucky

BLUE GRASS

We Buy and Sell

Dwarf Essex Rape, Red, White and Alsike Clover, White and Yellow Blossom Sweet Clover, Alfalfa, Blue Grass, Red Top, Millet, Cane, Kaffir, Hybrid Seed Corn and all seed grains.

Correspondence Solicited

Ouren Seed Company

Council Bluffs, Iowa

50 Years of Service 1891-1941

Quality FIELD SEEDS

STRAIGHT CARS MIXED CARS **BAG LOTS**



GEO. P. SEXAUER & SON BROOKINGS, S. DAK. DES MOINES, IA.

(B) Mixtures. Every lot.

- Mixtures. Every lot.

 1. Commonly accepted name and percentage of each agricultural seed composing the mixture, when present in amount of 5% or more.

 2. Percentage of weed seed.

 3. Percentage of inert matter.

 4. Names and numbers per pound of all noxious weed seeds present, singly or combined, at rate of more than 1/10 of one per cent by count.

 5. For each kind present in excess of 5% give:

 (a) Percentage of germination, exclusive of hard seeds.

 (b) Percentage of hard seeds.

 (c) Date of test. Date cannot be over one year old.

 6. Name and address of vendor.
- year old.
 6. Name and address of vendor.
- (C) Vegetable seeds are not included in

(D) Hybrid Seed Corn

Hybrid Seed Corn

"Hybrid Seed Corn" is defined as seed of the first generation of a cross involving one or more unrelated inbred lines or their combinations. An "inbred line" is a line of corn that has been developed as a result of not less than five generations of controlled self-fertilization or its equivalent.

Any corn offered as hybrid seed corn shall be registered by filing with the Secretary of the State Board of Agriculture a verified statement giving:

(1) Name or number by which the hybrid is designated.

(1) Name or number by which the hybrid is designated.
 (2) The complete pedigree of each hybrid.
 (3) The name of the breeder who developed each inbred line in the combination.
 In addition to the label requirements under (A) every lot shall be labeled with the name or number by which the hybrid is designated.

NOXIOUS WEEDS

PROHIBIT ANY: field bindweed—Convolvulus arvensis

PROHIBIT MORE THAN AN AVERAGE OF ONE SEED IN 5 GRAMS:
dodder—Cuscuta species; Johnson grass—Sorghum halepense.
GIVE NAME AND NUMBER PER POUND IF MORE THAN 1/10 OF 1% BY COUNT EITHER SINGLY OR IN COMBINATION:
Canada thistle—Cirsium arvense; corn cockle—Agrostemma githago; buckhorn plantain—Plantago lanceolata; wild mustards—Brassica species; French weed—Thlaspi arvense; quack grass—Agropyron repens; wild onion—Allium species; dock—Rumex species; wild oats—Avena fatua; bull nettle—Solanum carolinense; wild carrot—Daucus carota; chess or cheat—Bromus species; morning glory—Ipomoca species; ox-eye daisy—Chrysanthemum leucanthemum; hoary cress—Lepidium draba.

LABORATORY AND TESTS

Seed Laboratory at Manhattan, is maintained by the Kansas State Board of Agriculture, cooperating with the Kansas State College of Agriculture:

Agriculture:
Paul Ijams, Director of Control Division,
J. W. Zahnley, Director of Laboratory.
Tests free to Kansas residents, but limited:
Wholesalers not more than 10 per month
Retailers not more than 10 per month
Planters not more than 5 per month
Not more than 1/3 of these allowances per any
one month, may consist of redtop, bluegrass,
lawn or pasture mixtures and others of similar
nature.

Fee for out of state samples to be set by State Board of Agriculture.

ENFORCEMENT AND REGULATIONS

Enforcement is under State Board of Agriculture, J. C. Mohler, Secretary, Topeka, "The so-called "Disclaimer Clause," as now commonly printed is not permitted on a seed label in Kansas."

In the case of open-pollinated corn, the county where grown must be given. Percentage of other crop seeds to be given on analysis tag, on unmixed seeds.

Seed held for more than one year must be retested.

KENTUCKY

Law of 1932

INFORMATION REQUIRED ON ANALYSIS TAG.

- (A) Agricultural seeds. Use Kentucky official manila tag "A," except on cereals use yellow tag "B." Every lot of one pound or more.
- (B) Mixtures. Every lot of 1 pound or more. Use Kentucky official blue tag "C".

 - That seed is a mixture.

 Name and percentage of each kind of agricultural seed in excess of 5% by weight of total mixture.

 - Percentage of weed seed.

 Name and number per ounce of each kind of noxious weed seeds and bulbs present. For each agricultural seed present in excess of 5% give—
 - of 5% give—

 (a) Percentage of germination, exclusive of hard seeds.

 (b) Percentage of hard seeds. (Regulation.) (c) Month and year tested.

 6. Where grown; if unknown, give statement to that effect.

 7. Name and address of vendor.
- (C) Special Mixtures. Every lot of 1 pound or more. Use Kentucky official blue tag "C"

 - That seed is a mixture.

 Name of each agricultural seed, which is present in proportion of 5% of total mixture.

 - ture.
 Percentage of weed seeds.
 Percentage of inert matter.
 Name and number per ounce of each kind of noxious weed seeds and bulbs present.
 Name and address of vendor.

(D) Vegetable Seeds. Use Kentucky official yellow tag "B". Lettuce, peas, tomatoes, beans, onlons, cabbages, carrots, melons and other truck crops listed as agricultural seeds. Label as under (A) above.

lot of one pound or more.

1. Commonly accepted name.
2. Percentage of pure seed.
3. Percentage of weed seed.
4. Name and number of each kind of noxious weed seeds and bulbs present per ounce of agricultural seeds.
5. Percentage of—
(a) Germination, exclusive of hard seeds.
(b) Hard seeds. (Regulation.)
(c) Month and year of test.
6. Where grown; if unknown give statement to that effect.
7. Name and address of vendor.

NOXIOUS WEEDS

Quack grass—Agropyron rep Cuscuta sp.; sorrel—Rumex A horn—Plantago lanceolata; co rostemma githago; wild onio cale; Canada thistle—Cirsium Added 1936-37
Ox-eye daisy—Chrysanthemum Johnson grass—Sorghum hale;

LABORATORY AND TESTS

State Seed Laboratory at the I tion, Lexington. Quack grass—Agropyron repens; dodder—Cuscuta sp.; sorrel—Rumex Acetosella; buck-horn—Plantago lanceolata; corn cockle—Agrostemma githago; wild onion—Allium vineale; Canada thistle—Cirsium arvense.

Added 1936-37
Ox-eye daisy—Chrysanthemum leucanthemum; Johnson grass—Sorghum halepense.

State Seed Laboratory at the Experiment Station, Lexington.

A resident of Kentucky may submit not more than 8 samples for free analysis during the calendar year and not more than 2 samples in any calendar month. Samples in excess of such numbers will be charged at the rate of:

50 cents to \$2.00 for purity tests; mixtures \$3.00

25 cents to 50 cents for germination

Non-residents' rates—purity \$3.00, germination \$1.00.

S1.00.
W. A. Price, Head of Entomology and Botany Department, in charge of laboratory.

ENFORCEMENT

Thomas Cooper, Director of Agricultural Experiment Station.
W. A. Price, enforcement agent.
Purchase Kentucky Official Tags from Director of Agricultural Experiment Station, Lexington. at following prices:

Manila tag "A" for unmixed alfalfas, clovers, and grass; blue tag "C" for mixed seeds.

Tag for 100 pounds—8 cents each
Tag for 75 pounds—6 cents each
Tag for 50 pounds—4 cents each
Tag for 25 pounds—2 cents each
Yellow tag "B" for cereals, garden and truck
crops.

renow tag
crops.
Tag for 100 pounds—4 cents each
Tag for 75 pounds—3 cents each
Tag for 50 pounds—2 cents each
Tag for 25 pounds—1 cent each

ROSS SEED

INCORPORATED

Established 1895

LOUISVILLE, KY.

46 Years



The Best

Wholesale Field and Grass Seeds

Jobbers of Orchard Grass . . Bluegrass . . Redtop . . Clovers . . Timothy .. Korean (Lespedeza) .. Soy-

beans . . Cowpeas, Etc.

Car lots or less

ROSS SEED CO.

INCORPORATED

15th and Lytle

Louisville, Ky.

GILT EDGE SEEDS

Wholesalers and Jobbers

of FIELD SEEDS

Specializing in

CLOVERS GRASSES KOREAN LESPEDEZA

49 years in same location

NATIONAL SEED CO.

101 W. Main St. Louisville, Ky.

MEMBERS

AMERICAN SEED TRADE ASS'N SOUTHERN SEEDSMEN'S ASS'N

REGULATION

The percentage of hard seed should be shown on the tag, but must not be included in the percentage of germination.
 Hybrid Seed Corn must bear on the label the name of the hybrid is not well known, the name of the inbreds composing it, together with the number of days required for maturity shall be reported to the enforcement officer in charge of the Pure Seed Law.

LOUISIANA

Act of 1926 and Regulations 1934

INFORMATION REQUIRED ON ANALYSIS TAG

- (A) Agricultural seed. Every lot of 10 pounds or more.
 - Commonly accepted name.

Percentage of pure seed.
Percentage of weed seed.
Name and number per ounce of each kind of noxious weed seed present singly or collectively in excess of:

(a) one seed in 5 grams.

- (a) one seed in 5 grams.
 (See page 106, group A.)
 (b) one seed in 25 grams
 (c) one seed in 100 grams
 5. Percentage of germination with the month and year tested.
 6. Year in which seed was grown.
 7. Where grown if brought into the state.
 8. Name and address of vendor.

(B) Mixtures of agricultural seeds of only 2 kinds. Every lot of 10 pounds or more.

- That seed is a mixture. Name and percentage of each kind of agricultural seed present in excess of 5% of total printers.
- cultural seed present in excess of 5% of total mixture.

 Percentage of weed seeds.

 Name and number per ounce of each kind of noxious weed seed present singly or collectively in excess of one seed in each 15 grams.
- 15 grams.
 Percentage of germination of each kind of agricultural seed present in excess of 5% together with the month and year tested, and year grown.
 Where grown if brought into the state.
 Name and address of vendor.

(C) Special Mixtures. Every lot of 8 ounces or more.

- That such seed is a mixture.

 Name of each kind of agricultural seed present in proportion of 5% or more.

 Percentage of weed seed.

 Percentage of inert matter.

 Name and number per ounce of each kind of noxious weed present singly or collectively in 15 grams.

 Where grown if brought into the state.

 Name and address of vendor.

(D) Vegetable seeds. Every lot of 10 pounds or more.

Included under agricultural seeds. Label as under (A) above.

NOXIOUS WEEDS

Dodder—Cuscuta epithymum; Johnson grass—Sorghum halepense; tie vine—Convolvulus arvensis; cockle bur—Xanthium canadense; cocoa grass—Cyperus rotundas; Bermuda grass—Cynodon dactylon; foxtail—Alopecurus geniculatus; ox-eye daisy—Rudbeckia hirta; wild mustard—Brassica arvensis; large dock—Rumex obtusifolius; crab grass—Digitaria sanguinalis; dandelion—Pyrrhopappus carolinianus; thistle—Sonchus species.

LABORATORY AND TESTS

Seed Laboratory, Department of Agriculture. Baton Rouge, in charge of A. P. Kerr, State

Commissioner of Agriculture may fix number of free samples to be tested in a period of time and may fix charges for tests of samples submitted in excess of those free of charge.

Enforcement under Commissioner of Agriculture, Harry D. Wilson, A. P. Kerr, enforcement agent, Baton Rouge.

FIELD シュエエア

STRAIGHT CARS MIXED CARS BAG LOTS



LEWIS SEED

ALFRED CHESCHEIR, President

Louisville, Kentucky U. S. A.

42 YRS. OF SERVICE

Gold Medal

OUR SPECIALTIES

REDTOP TIMOTHY ORCHARD GRASS BLUE GRASS KOREAN LESPEDEZA SOY BEANS COW PEAS

LOUISVILLE SEED COMPANY

LOUISVILLE, KENTUCKY

Branch Office and Warehouse LOUISVILLE. ILLINOIS

MARYLAND

Law of 1941

INFORMATION REQUIRED ON ANALYSIS TAG OR CONTAINER

(A) Agricultural Seeds (Unmixed). Every lot.

1. Commonly accepted name of

(a) Kind or

(b) Kind and variety or

(c) Kind and type.

2. Lot number or other identification.

3. Percentage of pure seed.

4. Percentage of inert matter.

5. Percentage of weed seeds.

6. Percentage of other agricultural seed.

7. Percentage of other agricultural seed.

(c) Month and year tested. Test shall have been completed within a nine month period exclusive of the month in which the test was made.

Following (a) and (b) "Total Germination and Hard Seed" may be given if desired.

8. Origin of Alfalía, Red Clover and Field corn (except hybrid) if unknown must be so stated.

9. Name and address of person who labeled

(except hybrid) if unknown must be stated.

Name and address of person who labeled, or sells, offers or exposes seed for sale.

Name and number of each kind of noxious weed seed, per ounce in group B1 and B2 and per pound in groups B3 and B4 if present singly or collectively in excess of (a) one seed in five grams (see page 106, group B).

(b) one seed in ten grams.

(c) one seed in twenty-five grams.

(d) one seed in one hundred grams.

(B) Mixed Agricultural Seed. Every lot*

Same as for unmixed seed except that the information required under Items (A) 1, 3 and 7 shall be given, in the order of its predominance, for each agricultural seed component present in excess of 5%. When more than one component is named the word "mixture" or "mixed" shall be used.

(C) Vegetable Seeds.

Vegetable Seeds.

1. For containers of 8 ounces or more.

(a) Lot number or other identification.

(b) Name of kind and variety.

(c) Percentage of

1. Germination, exclusive of hard seed.

2. Hard seed.

3. Month and year tested. Test shall have been completed within a nine month period exclusive of the month in which it was completed.

4. Name and address of person who labeled, or offers, sells or exposes said seed for sale.

2. For containers of less than 8 ounces.

(a) Name of kind and variety.

(b) For seed which germinates less than the standard last established by the State Board of Agriculture.

1. Percentage of germination, exclusive of hard seed.

2. Percentage of hard seed.

3. Month and year tested. Test shall have been completed within a nine month period exclusive of the month in which it was completed.

4. Words "BELOW STANDARD" in not less than 8 point type.

(c) Name and address of person who labeled, or offers, sells or exposes said seed for sale.

Prohibits the sale, offering or exposes

(D) Prohibits the sale, offering or exposing for sale of any agricultural or SEED LABORATORY AND TESTS vegetable seed if,

The test for germination has not been completed within a nine months period, exclusive of the month in which test was completed.

NOXIOUS WEEDS

Dodder—Cuscuta Spp.; Canada Thistle—Cirsium arvense; Quackgrass—Agroypron repens; Bindweed—Convolvulus arvensis; Johnson grass—Sorgnum naiepense; Wild garlic—Allium vineale; Bermuda grass—Cynodon dactylon.

"STOP SALE" orders may be issued by the authorized agent of the State Board of Agriculture

when he finds any agricultural or vegetable seed in violation of the provisions of this act which shall prohibit further sale of said seed until the agent has proof the law has been complied with. No "stop sale" order shall be issued or attached to any lot of seed without first giving the owner or custodian an opportunity to comply with the law or to remove seed from sale. An appeal from such an order may be made to a court of competent jurisdiction where the seeds are found, praying for a judgment as to the justification of said order and for the discharge of such seeds from the order prohibiting the sale in accordance with the findings of the court. with the findings of the court.

with the findings of the court.

SEIZURE OF SEED

Any lot of agricultural or vegetable seed not in compliance with the provisions of this act shall be subject to seizure on complaint of the authorized agent of the State Board of Agriculture to a court of competent jurisdiction in the area in which the seed is located. In the event the court finds the seed to be in violation of the law and orders the condemnation of said seed it shall be denatured, processed, destroyed, relabeled or otherwise disposed of in compliance with the laws of the state, but in no instance without first having given the claimant an opportunity to apply to the court for a release of said seed or permission to process or relabel it to bring it into compliance with this act.

Seed Laboratory at Agricultural Experiment Station, College Park, Maryland. Number of free tests to Maryland citizens determined by the person in charge.

F. S. Holmes, in Charge of Laboratory.

ENFORCEMENT AND REGULATIONS

Enforcement under State Board of Agriculture. Bermuda grass—while a "noxious weed" when present in any other kind of seed, may be sold as Bermuda grass.

(Not under law of 1941.)

MAINE Revised In 1919

INFORMATION REQUIRED ON ANALYSIS TAG

(A) Agricultural Seeds. Every lot.

Name of seed.
 Percentage of pure seed.
 Name and amount (number per pound) of each kind of noxious weed.
 Percentage of germination together with the month and year tested.

(B) Mixtures not included.

(C) Vegetable seed not included.

NOXIOUS WEEDS

Ball mustard—Neslia paniculata; bearded dar-nel—Lolium temulentum; bitter dock—Rumex obtusifolius; black mustard—Brassica nigra;

bladder campion—Silene latifolia; blue bur or stickseed—lappula echinata; blueweed—Echium rulgare; Canada thistle—Cirsium arvense; charlock—Brassica arvensis; chicory—Cichorium intybus; clover dodder—Cuscuta species; clustered dock—Rumex conglomeratus; common ragweed—Ambrosia artemisiifolia; common (annual) sow thistle—Sonchus oleraceus; corn cockle—Agrostemma githago; cow-herb—Saponaria vaccaria; daisy fleabane—Erigeron ramosus; false flax—Camelina sativa; field bindweed—Convolvulus arvensis; field penny cress—Thlaspi arvense; field (perennial) sow thistle—Sonchus arvensis; great ragweed—Ambrosia trifida; Indian mustard—Brassica juncea; hare's-ear mustard—Conringia orientalis; king devil weed—Hieracium pratense; night-flowering catchfly—Silene noctiflora; orange hawk weed—Hieracium aurantiacum; ox-eye daisy—Chrysanthemum leucanthemum; perennial ragweed—Ambrosia

psilostachya; ribgrass—Plantago lanceolata; rutabaga—Brassica campestris; small seeded false flax—Camelina microcarpa; spinyleaved or prickly sow thistle—Sonchus asper; sweet scabious—Erigeron annuus; tumble mustard—Sisymbrium altissimum; white campion—lychnis alba; wild carrot—Daucus carota; wild oats—Avena fatua; wild radish— Raphanus raphanistrum; witch grass—Agropyron repens; yellow dock—Rumex crispus.

SEED LABORATORY

Maine Agricultural Experiment Station, Orono. George P. Steinbauer, Analyst.

ENFORCEMENT

Department of Agriculture, Augusta. A. M. G. Soule, Chief of Division of Inspection.

MASSACHUSETTS

Law of 1938

INFORMATION REQUIRED ON ANALYSIS TAGS

(A) Agricultural seed, every lot.

Agricultural seed, every lot.

1. Name and variety.

2. Percentage of pure seed.

3. Percentage of weed seed.

4. Name and number per ounce of each kind of noxious weed seeds present singly or collectively in excess of (a) one seed in each 5 grams

(See page 106, group A.)

(b) one seed in each 25 grams
(c) one seed in each 100 grams

5. Germination together with month and year of test.

6. Name and address of vendor.

(B) Mixtures of Agricultural seeds of (C) Mixtures of Agricultural Seeds not not more than two kinds. Every lot.

That such seed is a mixture.
 Name, variety and percentage by weight of each kind of agricultural seed in excess of 5% by weight of the total mixture.
 Percentage of weed seeds.
 Name and number per ounce of noxious weed seeds present singly or collectively in excess of one seed in each 15 grams.
 Percentage of germination of each kind of agricultural seeds present in such mixture in excess of 5% by weight, together with the month and year tested.
 Name and address of the vendor.

included in the above. Every lot.

That the seed is a mixture.

That the seed is a mixture.

The name, variety and percent by weight of each kind present in excess of 5% by weight of the total mixture.

Percentage of weeds.

Percentage of inert matter.

Name and number per ounce of each kind of noxious weed seed present singly or collectively in excess of one seed in each 15 grams of such mixture.

Percentage of germination of each kind of agricultural seed present in excess of 5% of the entire mixture together with the month and year tested.

7. Name and address of the vendor.

(D) Vegetable seeds. Each separate container.

- Rind of seed and variety.

 Percentage of germination, together with the month and year tested provided such seed germination is less than the standard for such seed for the current year as established in Massachusetts. (See page 102 for standard for st
- ards.) Name and address of vendor, packer or

(E) Flower Seed. Each container.

Kind of seed and variety.
 Name and address of vendor, packer or processor.

NOXIOUS WEEDS

Quack grass—Agropyron repens; Canada thistle—Cirsium arvense; dodder—Cuscuta species; wild mustard—Brassica species; English plantain—Plantago lanceolata.

SEED LABORATORY

Massachusetts Agricultural Experiment Station, Amherst, F. A. McLaughlin, analyst in charge. Tests—Any person residing or doing business in this commonwealth shall have the privilege of submitting samples of seed for test subject to rules and regulations, including a reasonable fee for such test.

ENFORCEMENT

State Department of Agriculture, Commissioner of Agriculture, State House, Boston.

MICHIGAN

Law 1941 and Regulations

INFORMATION REQUIRED ON ANALYSIS TAG OR CARTON

(A) Agricultural Seeds. One pound or more.

for sale.

Name of each noxious weed seed present, singly or collectively, in excess of:

1 in each 5 grams.

(See page 106, group A.)

1 in each 25 grams. 1 in each 100 grams.

alsike and white clover, red top and Timothy, alsike and red clover. One pound or more.

(1) That such seed is a mixture.(2) Lot number or other identification.

- (3) Name and percentage of each kind of agricultural seed present in excess of 5% of the total mixture.
- (4) Percentage of inert matter.
- (5) Percentage of weed seeds.

(6) Percentage of other agricultural seeds.

(7) Percentage of one agricultural seeds.

a. Germination, exclusive of hard seed, for each kind of agricultural seed present in excess of 5% of the total.

b. Hard seed.
c. Month and year of test.

(8) Origin of red clover, alfalfa, soy beans and field corn.

(9) Name and address of person who la-bels seed, or who sells, offers or ex-poses seed for sale.

(10) Name and number per pound of noxious

(B) Mixtures of alsike and timothy, (C) Special Mixtures. Eight ounces or more.

(1) That such seed is a mixture.
(2) Lot number or other lot identification.
(3) Name and percentage of each kind present in excess of 5% of the total mixture.
(5) Percentage of weed seeds.
(6) Percentage of other agricultural seeds.
(7) Percentage of:
 a. Germination, exclusive of hard seed,
 for each kind of agricultural seed present in excess of 5% of the total.
 b. Hard seed.
 c. Month and year of test.
(8) Origin of red clover, alfalfa, soy beans and field corn.
(9) Name and address of the person who labels seed, or who sells, offers or exposes seeds for sale.
(10) Name and number per pound of noxious weeds present.

(D) Lawn grass mixtures. Every lot.

(1) That seed is a mixture.
(2) Name and proportion of each ingredient seed present in quantity of 5% or more.
(3) Percentage of inert matter.
(4) Percentage of weed seeds.

HERE IT 15 - TOP FLIGHT BANTAM An All-America Winner for 1942 Sensational New Hybrid Sweet Corn! To make real friends of your customers, suggest they plant some of this Top Flight Bantam. This corn has larger kernels, more tender kernels, and a sweeter, more succulent flavor than any sweet corn you have ever tried. TOP FLIGHT averages 82 days from planting to the edible stage;

ears are predominantly 16 rowed, of extremely uniform size, and well filled tips. Good kernel depth. Shows high degree of resistance to smut and ear worm damage. Top Flight is well adapted to areas as far north as sweet corn of 82 days maturity can be planted, to far down in the cotton belt. Gets good results farther south than can be expected of most bantam

types. As you can well imagine, the demand for this corn is great, while the supply is small. To be sure you get enough to supply your customers who want a superior sweet corn, better place your order NOW.

Since 1884 * * * Growers of GARDEN SEED lowealth HYBRID CORN

Michael-Leonard Co.

Top Flight Bantam is an Exclusive Michael - Leonard Creation Chicago, III.

Sioux City, Iowa

KING

headquarters for **MICHIGAN** GROWN SEEDS

RED CLOVER ALFALFA VETCH

H. C. KING & SONS, INC. BATTLE CREEK **MICHIGAN**

HARDY SELECTED NORTHERN GROWN SEED

ALFALFA SWEET CLOVER RED and ALSIKE CLOVER TIMOTHY TIMOTHY and ALSIKE SEED CORN

SHIPPERS OF CARLOTS - - MIXED CARS



Pride of the North Brand Guaranteed Highest Quality Field Seeds

WRITE FOR SAMPLES AND PRICES

TWIN CITY SEED CO.

STANLEY FOLSOM, Mgr.

130 2nd St., N.E. Minneapolis, Minn.

- (5) Percentage of other agricultural seeds.
 (6) Percentage of germination of each kind of agricultural seed present in excess of 5% of the total mixture with the month and year tested.
 (7) Name and address of person who labels seed, or who sells, offers or exposes seed for sale.

(E) Vegetable seeds. Each separate container.

- Kind and variety of seed.
 Percentage of germination together with month and year tested, if the germination is below the Michigan Standard for that the second of the second kind and variety. standards.) (See page 102 for
- (3) Name and address of person who labels seed, or who sells, offers or exposes seed for sale.

(F) Hybrid Seed Corn.

Use of term "Hybrid," with seed corn, shall be restricted to first generation stock of a cross, the parentage of which involves one or more inbreds. In addition to the regular label requirements (A) every lot shall be labeled with the name or number by which the hybrid is designated and the vendor shall file with the Commissioner of Agriculture a statement giving the pedigree of the hybrid and name of the breeder who developed the inbred.

Prohibits the Sale, Offering and Exposing for Sale of-

Agricultural seed containing noxious weed seeds in excess of one weed seed to 2,000 agricultural seeds.

NOXIOUS WEEDS-Prohibited 1 to 2000 crop seeds.

Quack grass—Agropyron repens; Canada thistle—Cirsium arvense; dodder—Cuscuta species; mustards (charlock, black mustard and Indian mustard)—Brassica or sinapsis species; wild carrot—Daucus carota; bindweed—Convolvulus arvensis; perennial sow thistle—Sonchus arvensis; Hoary alyssum—Bertena incapa teroa incana.

SEIZURE OF SEED.

The Commissioner, his deputy or duly appointed agent may seize any lot of agricultural or vegetable seed which, in his opinion, is being sold, offered or exposed for sale contrary to the provisions of this act. If after analysis said seed were found to be in violation to this act the commissioner, his deputy or duly authorized agent shall make complaint before a justice of the peace in the township or city where such seed were seized. If said seed shall be found upon trial to be possessed for the purpose of being sold, offered or exposed for sale contrary to this act, the justice shall render judgment as in his discretion seems proper.

a. Seized seed to be forfeited to the state to be disposed of.

b. Defendant clean seed under reasonable restrictions imposed by the commissioner.

c. Defendant properly mark or label seed according to the requirements of this act. In any judgment so rendered, the defendant shall pay the court costs and the actual necessary expenses in the seizure of such seed before the seed is returned to him.

SEED LABORATORY

Department of Agriculture, Lansing. Chas. A. Stahl, seed analyst.

Fees—Field seeds, 50 cents; chaffy grasses, \$1.00; mixtures, 50 cents for each crop seed in excess of 5% (including germination). Germination only, 50 cents per test.

Requirements for Grades

Grasses from Grade A Grade A for		Group II Max, 45%	Shade Grasses Min.	Group III Max.	Rye- Grass Max. 15%	Maxi- mum Inert 6.60	Maxi- mum Weeds .40	Germination Not less than standard
shade Grade B Grade B for	32%	55%	48%	• • • •	15% 25%	6.60 10.40	.40	Not less than standard Not more than 5% below std.
shade Grade D Grade D for		• • • •	20%	15%	25% 35%	10.40 14.20	.60 1.60	Not more than 5% below std. Not more than 15% below std.
shade			20%	15%	35%	14.20	1.00	Not more than 15% below std.

ENFORCEMENT AND REGULATIONS

Enforcement-Leo V. Card, Commissioner of Agriculture.

of Agriculture.
Regulations:

1. Mixtures—Any two or more kinds of agricultural seeds in quantities of 5% or more in the same lot shall constitute a "mixture." Agricultural seeds in mixtures must be present in quantities of 5% or more to be considered as a part of the pure seed.

2. Hard seeds—Germination guarantee must not include the so-called "hard seed" as seed germinated. Additional information such as hard seeds is permissible on the tag. Permit hard seeds to be added to actual germination as "Probable live seed."

3. Mixture a lawn graph of graphs of the seeds and the seeds.

actual germination as "Probable live seed."
Michigan lawn grass grades (August, 1941)—Along with the regular analysis required under (D) in a conspicuous place, each package, bag, carton or bulk of mixed lawn seed meeting the requirements of grade A shall be labeled "Lawn Seed Michigan Grade A" and all meeting the requirements of Grade B shall be labeled "Lawn Seed Michigan Grade B." All mixed grass seed not meeting the requirements of Grade A or B must be designated as "Grass Seed Grade D" and must meet the requirements of Grade D. When making up mixtures, if the inert matter in Grades A & B is less than the maximum allowed, additional Red Topmay be added to make up the difference. Similarly in Grass Seed Grade D, as much as 5% Rye grass may be added. In all cases the excess of these components must be compensated by at least an equal amount of inert matter.

amount of inert matter.

Classification of Grasses Group I (Turf Grasses)

	Mini- mum	Mini
Kind of Seed	Purity	Germ
Ky. Blue Grass (Poa pratensis).	82%	80%
*Rough Blue Grass (Poa trivialis) European Red Fescue (Festuca	90%	70%
rubra-genuina) New Zealand Chewing Fescue	97%	80%
(Festuca rubra-fallax)	97%	70%
†Bent Grasses	97%	85%
White Clover	95%	‡ 92 %
Alba)	92%	90%
italicum)	97%	90%
Group III (Special Purpose Grasses) Seaside Bent (Agrostis palustris		
maritima)	97%	85%
pressa)	82%	85%
Annual Blue Grass (Poa annua) Rough Blue Grass (Poa trivia-	82%	85%
lis)	90%	70%
riuscula)	97%	80%
ovina, tenuifolia) European Red Fescue (Festuca	97%	80%
rubra-genuina)	97%	80%
Sheeps Fescue (Festuca ovina) Creeping Bent Stolons Group IV (Filler Grasses) (Not recommended for lawn) Crested Dogtail (Cynosurus cris-	97%	80%
tatus)	97%	80%
nemoralis)	80%	80%
merata)	80%	80%
Meadow Fescue (Festuca elatior)	95%	90%
Timothy (Phleum pratense)	98%	90%

Note: Valuable in shady places are: Rough Blue Grass, Chewings Fescue, Velvet Bent (agrostis canina), Fine Leaved Fescue.

*Also a good Nurse Grass.

*Misures Parity of Company Parity of Compa

†Minimum Purity for South German Mixed Bent

Not more than 15% below std.

Total germ. and Hd. Seeds.

WOODRUFF & SONS, S.eeD.

SINCE 1865

S eed, field and garden

D ependable stocks

W atermelon seed

O nion seed

O nion sets

D andelion seed

R adish popular varieties

U niform quality

F inest western grown peas and beans

F air dealing for 77 years

A sparagus seed and plants

N orthern grown field seed

D ill and other herb seed

S quash and spinach

O rders to ORANGE, CONN.

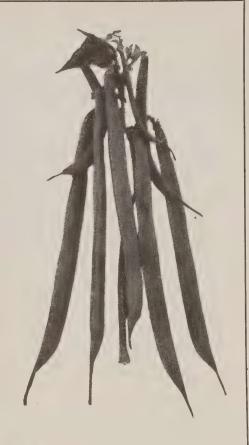
N eeds for lawn seed

S eed for the CANNER, JOBBER and RETAILER

INQUIRIES INVITED

WAREHOUSES CONVENIENTLY LOCATED FOR QUICK DELIVERY

S. D. WOODRUFF & SONS, INC.
ORANGE CONN.



TRINGLESS

ALENTI

THREE PROFITABLE ITEMS FOR THE SEED TRADE

SUNRAY PLANT COVER

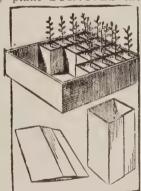


WIRE REINFORCED!

Feature SUNRAYS in your 1942 Catalogue. The Plant Cover the grower has been waiting for. SUNRAYS are wire-reinforced to withstand the pressure of driving rains and wind. SUNRAYS have increased height and are reasonably priced.

EXPAN PROPAGATING POTS

Offer the Grower this MODERN, efficient method of transplanting. Every plant SURVIVES the haz-



ards of transplanting because the root system is not disturbed. The plant REMAINS in the Pot which soon deteriorates after transplanting. EXPAN POTS are available in 50 combinations of size and weight of material to meet the requirements of various plants ranging from bedding plants, vegetable plants, to trees such as conifer, avocado and many others.

EXPAN TREE PROTECTOR

For the protection of young trees from damage caused by Sunburn. Rabbits, Squirrels, etc. Are so economical that THE LOSS OF ONLY ONE TREE PER ACRE WILL COST MORE THAN PROTECTORS FOR THE ENTIRE ACRE. These Protectors are rolled which shapes them for the tree. The fastening means is attached to each Protector. Installation is a simple and rapid operation. Every tree Grower and Owner is a prospective customer for EXPAN TREE PROTECTORS.



WE WILL BE PLEASED TO FURNISH CATALOGUE CUTS FREE UPON REQUEST PAXTON PRODUCTS CO. P. O. BOX 68 RIVERSIDE, CALIF.

MINNESOTA

Act as Amended 1941 and Regulations

INFORMATION REQUIRED ON ANALYSIS TAGS. USE MINNESOTA STATE TAGS. (Information In Not Less Than 8 Point Gothic Caps.)

(A) Agricultural seeds. One pound or more.

- 1. Commonly accepted name and variety.
 2. Percentage of pure seed.
 3. Percentage of weed seeds. (Prohibit 2%).
 4. Name and number per pound of primary noxious weed seeds when present singly and collectively in excess of 10 per pound. Prohibited if in excess of 25 per pound. Seed noxious weed section. (If less than 10 per pound can be marked "trace.")
 5. Percentage of germination together with the date of test. Test cannot be over 6 months old.
 6. Where grown (in case of corn the county).
 7. Name and address of vendor.

(B) Mixtures of field seeds. One pound

The words "Mixed Seeds."

Name and percentage by weight of each kind of agricultural seed in excess of 5% of the total mixture.

Percentage of weed seeds (Prohibit 2%).

Name and number per pound of noxious weeds when singly or collectively in excess of 10 per pound.

Percentage of germination of each kind of agricultural seed together with the date of test.

or more.

test.
6. Where grown.
7. Name and address of vendor.

(C) Special Mixtures. Eight ounces or more.

1. The words "Special Mixture" or "Lawn Mixture."
2. Name (for Lawn grass mixtures—give the name and percentage) of each kind of agricultural seed present in excess of

Percentage of weed seeds.
Percentage of inert matter.
Number of seeds per pound of noxious weeds. (except in lawn mixtures)
Percentage of germination of each kind in excess of 5%. Test cannot be over 12 months old.
Full name and odd-

7. Full name and address of vendor.

(D) Vegetable seed.

Not included under law.
Agricultural seed shall include the seeds planted and grown in Minnesota for the production of root crops, grains, seeds, forage, hay, and for green manure crops and lawns.

(E) Hybrid Seed Corn.

Definition—"Hybrid Seed Corn" shall be seed of the first generation of a cross involving two. three or four different inbred lines of corn or their combinations and shall be restricted to seed of single crosses, three-way crosses and double crosses, these in turn being defined as follows:

follows:

(1) Single cross—The first generation of a hybrid between two inbred lines.

(2) Three-way cross—The first generation of a hybrid between a single cross and an inbred line.

(3) Double cross—The first generation of a hybrid between two single crosses.

Maturity Zones—The Dean and Director of Department of Agriculture of the University of Minnesota shall determine, establish and number or otherwise identify corn growing sections of the state and determine and publish for each section so established, the approximate number of days growing season re-

quired for corn from emergence of the corn plants above ground after planting to maturity.

Label—In addition to label requirements under (A) the label must state:

(A) the label must state:
 (1) Whether said hybrid corn is a single cross, three-way cross or double cross.
 (2) The year, county and state in which it was grown.
 (3) The approximate number of days for maturity in the section in Minnesota where said corn is intended to be grown.

SCREENINGS

where said corn is intended to be grown.

SCREENINGS

It shall be unlawful for any person to sell to the consumer, offer or expose for sale any screenings of any name or nature that have not been devitalized by grinding sufficiently fine to destroy all weed seeds, or otherwise devitalize them.

"STOP SALE"

The commissioner is authorized to seize and hold any lot, parcel, package or bulk of agricultural seeds or mixtures of the same found in violation of any provisions of the seed law or rules and regulations thereof until same have been complied with or said violation otherwise disposed of.

SEIZURE OF SEED

The commissioner upon seizing any agricultural seeds shall notify the person who was in possession of such seeds, or the owner thereof, or his agent, of such seizure, and return said seed to the consignor upon receipt of the expenses for transportation and also the expenses in handling, storing or caring for said seed, before same is billed for return shipment. If after 10 days said costs are not paid, the commissioner may confiscate said seed and destroy or otherwise dispose of it to prevent its use for seeding purposes and the net proceeds from the sale of such seed by the commissioner shall be transmitted to the State Treasurer.

IMPORTED SEEDS. It shall be unlawful to import or bring into the state or transport within the state any agricultural seeds unless each container shall bear a label giving—

1. Kind and variety of seed.

2. Percentage of germination and date of test.

4. The state from which seed was shipped, if corn, the county in which it was grown.

The state from which seed was shipped, if corn, the county in which it was grown. Name and address of person shipping

seed. In all other respects the seed shall conform to the act and the rules and regulations of the commissioner.

NOXIOUS WEEDS

Prohibited when in excess of 25 per pound, singly or collectively.

Quack grass—Agropyron repens; Canada thistle—carduus arvensis; thistle—Sonchus arvensis; dodders—cuscuta species; oxeye daisy—Chrysanthemum leucanthemum; buckhorn plantain—Plantago lanceolata.

Prohibited when in excess of 9 per pound, singly or collectively.

Perennial pepper grass—Lepedium draba; horse nettle—Solanum carolinense; Australian field cress—roripa or radicula austriaca.

trahan neid cress—fortya of radicula austriaca.

Prohibit any—Creeping Jennie—Convolvulus arvensis. Leafy spurge—Euphorbia esula.

SEED LABORATORY AND TESTS

State Seed Testing Laboratory—University Farm, St. Paul. J. L. Larson, Chief Analyst. Fees for tests (5 free samples allowed during

Fees for tests (5 feet samples year.)

gearnination—
25 cents—corn, peas, flax, beans, cereals, vetch and such larger seeds.
30 cents—alfalfa, clover, rape, sorghum, millet, Sudan grass, timothy and similar seeds, also

vegetable and flower seeds. 40 cents—blue grass, redtop, rye grass, wheat grass, brome grass, fescues, tobacco, Reed Canary grass and similar smaller grasses.

Purity—25 cents—cereals, buckwheat, flax, vetch and other seeds of similar size. 50 cents—millets, Sudan grass, alfalfa, alsike clover, red clover, sweet clover, rape, timothy, rye grass, cereal mixtures, slender wheat grass and seeds of similar character. \$1.00—white clover, orchard grass, timothy and alsike mixtures, all clover mixtures and all uncleaned seeds.

redtop, bent

cleaned seeds.

\$2.00—Kentucky blue grass, redtop grasses, and all lawn grass mixtures.

Examination for Noxious Weeds—
50 cents—grasses and other small seeds.

30 cents—other larger seeds.

ENFORCEMENT AND REGULATIONS

Enforcement: State Dept. of Agriculture
537 State Office Bldg., St. Paul.
Division of weed and seed control, C. P. Bull, director.

Division of weed and seed control, C. P. Bull, director.

Regulations:

Grimm Alfalfa—After Sept. 1st, 1930, no alfalfa seed shall be sold in Minn. as "Grimm" alfalfa in amounts of 30 pounds or more, except in sealed sacks bearing labels of the seed certification agency of the state in which the seed was grown.

The name "GRIMM" when used to designate the variety of alfalfa and referring to the seed of alfalfa shall mean and refer only to alfalfa seed, which may be traced through definite lineage to known Grimm alfalfa fields in Carver county, Minnesota. The size of the label shall not be less than two inches by four inches. Type not less than 8 point Gothic caps.

Re-Germination Tests—Tests made the year previous to which the seed is offered for sale are not regarded as fulfillment of the law. Date of test shall not be more than 6 months prior to date of sale.

Laun grass labels must be placed on the front of the carton.

Sugar beets and mangels shall be regarded as agricultural seeds and labeled as such.

Hard seeds—In stating the germination it shall be permissible to state the actual germination in terms of %, the hard seed, (where hard seeds occur) in terms of % and add these two figures together to get a figure which can be listed as "live seed."

SEED TAG SALE ACT

The following tags shall be used for pure

SEED TAG SALE ACT

The following tags shall be used for pure and unmixed seeds other than cereals and shall be obtained from the Commissioner of Agriculture at the given prices.

YELLOW TAGS for alfalfa, sweet clover, red clover, alsike clover, white clover, lespedeza, and other legume seeds of similar size, timothy, bromus, rye grass, orchard grass, reed canary grass, blue grass, fescues, red top, rape, bent grass and wheat grass.

GREEN TAGS for flax, millets, proso, sorghum or cane, kafir corn, milo maize, mangold, hemp, sudan grass, rutabagas and vetches.

BROWN TAGS for field and canning peas, navy and/or white beans, sunflowers, field and sweet corn and soybeans. WHITE TAGS for any and all mix-tures of seeds of the forgoing groups when two or more kinds, and/or varie-ties are intermingled in proportions of five percent or more by weight.

PRICES OF TAGS:

100 to 150 pound containers 5c each.
60 to 99 pound containers 4c each.
30 to 59 pound containers 3c each.
15 to 29 pound containers 2c each.
1 to 14 pound containers 1c each.

MISSISSIPPI

Law of 1940 and Regulations Effective January 1, 1941

INFORMATION REQUIRED ON ANALYSIS TAGS.

(A) Agricultural Seeds. Every lot of 5 pounds or more

- Common name and variety.

- Net weight.

 Lot number. (Regulation.)

 Percentage of pure seed.
- 5. Percentage of weed seeds. Prohibit if in excess of $2\frac{1}{2}\%$.
- Percentage of other crop seed. (Regula-
- 7. Percentage of inert matter. (Regulation.) Name and number per pound of each noxious weed present singly or collectively in excess of:
 - (a) One in each 5 grams. (See page 106, group A.)
- (b) One in 25 grams.(c) One in 100 grams.
- 9. Percentage of:

 - (a) Germination, exclusive of hard seeds.
 (b) Hard seeds. (Regulation.)
 (c) Month and year of test, provided not over 180 days prior to date of sale.
- 10. Where grown.
- Full name and address of person responsible for the label.

(B) Mixtures of agricultural seeds (by regulation every lot)

That such seed is a mixture.

That such seed is a mixture.
Net weight.
Lot number. (Regulation.)
Name and percentage of each agricultural seed present in excess of 5% of total mixture.
Percentage of weed seeds. Prohibit if in excess of 2½%.
Percentage of other crop. (Regulation.)
Percentage of inert matter. (Regulation.)
Name and number per pound of each noxious weed seed singly or collectively in excess of one seed in each 15 grams of the mixture.

the mixture.

For each agricultural seed present in excess of 5% give:

of 5% give:

(a) Percentage of germination, exclusive of hard seeds.

(b) Hard seeds. (Regulation.)

(c) Month and year of test, provided not over 180 days prior to the date of sale. Where grown.

Full name and address of person responsible for the label.

(C) Vegetable seed. Each separate container

Name and address of party responsible for the information given.

Name of kind and variety.

(a) Year during which seeds were grown or (b) Percentage of germination, hard seed if present and calendar month and year of test. (Regulation.)

For seeds germinating less than the standard last set by the Association of Official Seed Analysts in addition to (b) shall show the words "Below Standard." (Regulation.)

Name and address of party responsible for the information given.

Melons, Peas and Beans included as agricultural seeds

NOXIOUS WEEDS

Wild onion; Bermuda grass; Johnson grass; dodder; hawkweed; bindweed; nut grass or cocoa grass; dock and plaintain.

WITHDRAW FROM SALE.

Seeds not having a reasonable viability, or that are extremely impure, notwithstanding that are extremely

they may be properly labeled, shall be with-drawn from sale when, in the opinion of the Commissioner such withdrawal is in the interest of normal crop production.

SEIZURE OF SEED.

The Commissioner of Agriculture may seize and hold any lot of agricultural or vegetable seeds found to violate any of the provisions of the seed act until the law has been complied with and said violation otherwise legally disposed of.

SEED LABORATORY AND TESTS

State Seed Laboratory, State College, A. D. Suttle, Analyst, State College, Mis-

sissippi.

Any citizen of Mississippi has the privilege of submitting not more than 10 samples of agricultural and vegetable seeds for free test and analysis in any one year. Charges to non-residents to be fixed by the Commissioner

ENFORCEMENT

State Department of Agriculture, Jackson. Si Corley, Commissioner of Agriculture. J. M. Dean, Chief Inspector. Seedsmen must secure permit of Commissioner of Agriculture annually, \$1.00 for each seedsman registered and 25 cents for each seedsman. each agent.

Votice of Shipment:

(a) Notice of shipment:

(a) Notice of shipment of agricultural or vegetable seeds shall be mailed within 24 hours from shipping date and shall bear:

(1) Name and address of shipper.

(2) Name and address of person to whom shipped.

(3) The amount.

(4) The kind and variety of seed.

(5) The lot numbers of seed.

(b) Notice of the location of so-called commission boxes of packet seed shall state:

(1) Number of boxes.

(2) Number and size of packages in each.

(3) Their classification as to kinds of seed contained therein.

(4) Name and address of shipper and party to whom delivered.

Size of analysis tag shall be 43/4 x 23/8 inches, or equivalent in square inches.

All information required an analysis tag shall be placed on one side of the label without intervening matter.

Headquarters Hiah Quality

NORTHERN MINNESOTA

SWEET CLOVER **ALFALFA** Timothy Red Clover Alsike Clover

Land O'Lakes Creameries, Inc.

SEED DIVISION

Minneapolis, Minnesota

Extra Speed and Flexibility in the Grading of Hybrid Seed Corn by LENGTH!



ORDER NOW FOR PROMPT DELIVERY

Grades by length at a capacity up to 25 bushels per frades by length at a capacity up to 25 bushels per hour. Yields the exact desired separations of uniformly graded corn. Compact, sturdy, accurate—easy to move, easy to clean out. Comes complete with motor, extension cord with toggle switch, V-belt drive with variable speed sheave on motor. For smaller capacity requirements, 7 to 12 bushels per hour, get details on the No. 1 Hart Corn Grader.

HART-CARTER COMPANY

684 Nineteenth Avenue, N. E.

Minneapolis, Minnesota



Utility Model

Install the No. 15

CARTER DISC SEPARA

Here's the thrifty way to from flax. Separates vetch remove objectionable longer from oats. Cleans rye grass, or shorter foreign material crested wheat grass, fescues. Easily operated. Uses little Removes cockle, oats and power. A big value in cleanbarley from wheat. Eliminates quack, watergrass, ingly small cost!

HART-CARTER COMPANY

684 Nineteenth Avenue, N. E.

Minneapolis, Minnesota

Buy at the Source of Supply

MONTANA GROWN

ALFALFA SEED CRESTED WHEAT GRASS SWEET CLOVER **WESTERN WHEAT GRASS**

LAKIN SEED CO.

MILES CITY

MONT.

Good SEED

Louisiana Grown

MUER

(more plants per pound)

Other Grass Seeds Soy Beans

3401 acres chiefly seed crops

One of the best equipped cleaning plants in Louisiana

T. NOLIN

HAMBURG, LOUISIANA

The date on the analysis tags should be the date the germination test was completed. A complete analysis totaling 100% must be given. Blank spaces on a form tag or incomplete analysis are not permissible.

Abbreviation of names of the variety and kind of seed is not permissible.

Place of origin shall not be used as part of varietal name and kind of seed, as Miss. oats. Modifying words or phrases shall not be used in connection with the variety, as "type," "for forage purposes," etc.

Brand names, designs, grades or pictures indicating a contradiction to any part of the analysis shall not be permitted.

Different varieties of the same kind of seed, when in quantitites less than 5%, will be considered other crop seed.

Invoices and records of purchase or sale of all seed by the dealer or seedsman shall be accessible for examination by authorized agent of the Department of Agriculture for a period of 3 years.

Trucks or other motor conveyors transporting seed for sale on the public highways shall have available for examination a bill of lading, waybill, or delivery receipt showing (1) the name of the shipper or party from whom purchased; (2) the name and address of the party to whom seeds are to be delivered; (3) the kind and amount of each separate kind of seed and (4) the name of the truck driver and truck line making the delivery.

Farmer seed sold off the premises to be used for planting purposes must be tagged. Seeds gathered in elevator or other establishments to be sold by farmers or others are subject to the act.

Express, mail and freight, including truck deliveries to consumers of seed shall also be subject to provisions and rules and regula-

Express, mail and freight, including truck deliveries to consumers of seed shall also be subject to provisions and rules and regulations pertaining to the enforcement of the Seed Law.

New analysis tag bearing the name of the

vendor or other party responsible shall be placed on seed after the original test date becomes 180 days old.

becomes 180 days old. Worthless sced may not be sold or given away for planting purposes. Seed will be considered worthless if it contains in excess of 2½% total weeds or 300 noxious weeds per pound, or is of excessively low germination or mislabeled seed, whose variety is unadapted and unsuited for seeding purposes in Mississippi.

Seeds treated with fungicides shall show on the label the words "Poison Treated" in not less than '4-inch face red type.

Minimum germination. No agricultural seed except grasses, unscarified legumes, garden seed listed in the Standards for Germination and seed released by the U. S. customs shall be offered for sale if the germination is below 60%.

low 60%. Excessive Noxious Weeds. Seeds containing more than 200 noxious weeds per pound shall be labeled in red ink in not less than 12 point type "Excessive Noxious Weeds." Such excess shall not exceed 300 per pound. Seed labeled or sold as "Certified," "Registered" or "Pedigreed" must have been certified or registered and inspected by an officially authorized agency and cannot be sold in Mississippi unless the party selling shall have registered with the Mississippi Department of Agriculture Seed Laboratory the lot number, variety and kind, name and address of the grower, and the history of the seed. Mixed varieties of oats shall not be sold for

Mixed varieties of oats shall not be sold for planting purposes in this state.

Palse wild oats will be considered weeds.

Permits. All seed permits expire December
31 of each year. Failure to secure permit by
March 1 will incur a penalty equivalent to
the cost of the license; anybody selling seed
required to be tested and tagged is required
to have a permit.

MISSOURI Law 1938

INFORMATION REQUIRED ON ANALYSIS TAGS

- (A) Agricultural seeds. Each lot one pound or more.

 - Commonly accepted name.
 Percentage of pure seed.
 Percentage of weed seed.
 Name and number* of each noxious weed present singly or collectively in excess of:
 (a) One in 5 grams.
 (b) One in 25 grams.
 (c) One in 100 grams.
 Percentage of germination (including hard seeds) together with month and year tested.
 Percentage of hard seeds.
 Name of state and county (if field corn) where grown. If unknown, a statement to that effect.
 Full name and address of vendor together with the vendor's "Missouri Permit No...".

(B) Seed Mixtures.

- Percentage of germination of each kind present in excess of 5% by weight.

 Full name and address of vendor together with vendor's "Missouri Permit No. . . ".
- (C) Vegetable Seeds. Each separate container.
 - 1. The kind of seed, variety and "Missouri Permit No. . . ".
 - Permit No. . . ".

 2. Percentage of germination together with the month and year tested, if the germination is below the Missouri Standard. (See page 102 for standards.)

- 3. Full name and address of the packetor.
- No label required on vegetable seed sold and delivered directly to purchaser from a container which is labeled.

NOXIOUS WEEDS

PROHIBITED—Canada thistle; Johnson grass; Field bindweed—Convolvulus arvensis.

NAME AND NUMBER*—Quack grass; dodder; Russian thistle; wild carrot; buckhorn and other varieties of plantain; wild onion; red sorrel; oxeye daisy; garlic; docks.

LABORATORY AND TESTS

Federal-State Laboratory at Columbia, Missouri.
Missouri College of Agriculture, cooperating with
the U. S. Department of Agriculture.
W. C. Etheridge, Collaborator in charge.

Miss Clara Fuhr, Analyst, U. S. Dept.

Agriculture. May regulate the maximum number of free samples tested for any one person or firm in a given period of time.

That such seed is a mixture.

Name and percentage of each kind present in excess of 5% by weight of the total.

Percentage of weed seeds.

Percentage of inert matter.

Name and number* of each noxious weed present.

Percentage of of each noxious weed present. Missouri State Department of Agriculture, Jefferson City, Missouri.

Mrs. Rose K. Poehlman, Administrative Assistant to the Commissioner of Agriculture.

W. R. Crispin, Marketing Specialist, Grain and Seed Division, U. S. Dept. of Agriculture.

Permit number to be secured annually at cost of \$1.00 on application to Department of Agriculture. The permit expires December 31 each

container" means each and every packet

containing seeds. Hard Seeds—Law includes hard seed in per cent of germination and requires separate statement

No unit of quantity is given in the law ir model tag shows number per gram.

MONTANA

Law of 1913 and Amendments to 1939

INFORMATION REQUIRED ON ANALYSIS TAG

- (A) Agricultural seeds. One pound or more.

- Lot number or other distinguishing mark. Commonly accepted name. Variety; if unknown, state "Unknown." Percentage of pure seed. Percentage of weed seed. Percentage of inert matter.

Percentage of other crop seed.

Name and number per pound of noxious weeds present in excess of:

(a) One in 5 grams.

(See page 106 group A)

(See page 106, group A.)

(See page 106, group A.)
(b) One in 25 grams.
(c) One in 100 grams.
Percentage of germination, together with date of test, In cases where there are hard seed, these shall be stated separately with the provision that any portion or all the per cent of such hard seed may be added to the per cent of germination and stated as "total live seed".

Name of state where grown.
Name and address of vendor.

(B) Mixtures. One pound.

Mixtures. One pound.

1. Name of mixture.

2. Lot number or other distinguishing mark.

3. Name and percentage of each kind of agricultural seed present in excess of 5% of total mixture.

4. Percentage of weed seeds.

5. Percentage of inert matter.

6. Percentage of other crop seeds.

7. Name and number per pound of noxious weeds present singly or collectively in excess of one seed in each 15 grams.

8. Percentage of germination of each kind of agricultural seed present in excess of 5% together with the month and year tested. In cases where there are hard seed, these shall be stated separately with the provision that any proportion or all the per cent of such hard seeds may be added to the per cent of germination and stated as "total live seed".

9. Name and address of vendor.

(C) Vegetable seed are not included in the law.

NOXIOUS WEEDS

Quack grass; fanweed or French weed; wild oats; dodder; Canada thistle; wild mustard; wild morning glory; white top; leafy spurge; perennial sow thistle; Russian knapweed; blue

SEED LABORATORY AND TESTS

Montana Grain Inspection Laboratory, Agricultural Experiment Station, Bozeman, Montana. W. O. Whitcomb, Analyst.

Fees—Residents of Montana receive 5 free samples each year. A charge of 50 cents each will be made upon additional samples. Purity analysis of special mixtures will be made at the rate of 75 cents per hour of actual time re-

ENFORCEMENT AND REGULATIONS

Enforcement under Department of Agriculture Helena, Montana

1. T. Kelly, Commissioner.

When blank spaces on the label are unfilled, it shall be deemed to imply the word "none". (part of the law)
Classification of seeds.

1. Agricultural seeds shall be seeds which, before the removal of weed seed and inert matter, shall be 75% pure seed, except in grass seed which contain a high per cent of empty glumes and is otherwise of good quality.

2. Mixed agricultural seed shall be seeds which, before the removal of weed seed and inert matter, consists of 75% or more of agricultural seeds of two or more kinds in excess of 5% each. Grains for which Federal Standards have been fixed shall be classed as to mixtures of the individual grains but not as mixed grain, and shall be designated as provided for in the Federal Standards.

3. Screenings shall be seeds which, before the removal of weed seeds and inert matter, consist of less than 75% agricultural seeds. Such screenings shall be designated according to the kind or kinds of seed present.

Local dealer may use the wholesaler's label for only ninety days provided it complies with the Montana labeling requirements.

Seed labels complying with the Montana Grain Inspection Laboratory at \$1.00 per 100 or 2 cents each in lesser amounts.

4. Hybrid Seed Corn shall be seed of the first generation of a cross involving two, three or four different inbred lines of corn or their combinations, and shall be restricted to seed of single crosses, these in turn being defined as follows: 1. Single cross—The first generation of a hybrid between a single cross and an inbred line. 3. Double cross—The first generation of hybrid between two single crosses.

The name or number by which the hybrid seed corn is designated shall be plainly written or printed on the label of every lot,

single crosses.

The name or number by which the hybrid seed corn is designated shall be plainly written or printed on the label of every lot, parcel or bag of seed corn sold as hybrid



FOR

POP CORN BIRD SEED FARM SEED **GRASS SEED**

see

PRUNTY SEED & GRAIN CO.

620 N. Second St. Louis, Mo.

----In Our 68th Year of Seed Service

"EMERGENCY" MEAT PRICES WIN NEW CUSTOMERS FOR SEEDSMEN!

DOG OWNERS SWITCHING TO MARO-MEAT TO SAVE 1 ON MEAT BILLS!

SEEDSMEN everywhere are noticing a big increase in MARO-MEAT sales. The reason: high meat prices are driving more and more dog owners into seed stores for economical MARO-MEAT and the complete Chappel vitamin-fortifiedfeeding plan. Maro-Meat gives dogs good, lean meat that's GOV-ERNMENT INSPECTED and enriched with extra vitamins.

Maro-Meat Sells Other Chappel Products!

*Fresh Meat Ken-L-Biskit *Economical Ken-L-Worth *Vitamin-Fortified Ken-L-Meal

*Complete Canned Food Ken-L-Ration

All with Extra Vitamins Added! WRITE TODAY for the profit-making Chappel plan for sell-ing well-known dog food line.

CHAPPEL BROS. INC.



515 Peoples Ave. Rockford, Illinois



The Original



Ants Aphids Bedbugs Crab Lice Potato Bugs **CabbageWorms** Mex. Bean Beetles

Buy direct factory Deal. Costs \$9.60 delivered. Sells \$21.78.

6 doz. 25c size, ½ doz. 50c size, 78 post cards with free dog booklets and bags. Buy this deal from factory.



ONE-SPOT COMPANY

Elkridge

Maryland

Buy smaller amounts from your local wholesale druggist



COTTON BAGS

That Help You SELL SEED!

The right fabric for the purpose . . . the right design printed on the bags . . . the right price - you get these when you buy AMES sacks.

Leading bag users have been coming to us for cotton bags for 31 years.

Let us figure with you.

Write for Prices and Samples

AMES BAG MACHINE CO. 1991 E. 66th St., Cleveland, O. seed, in addition to the labeling requirements specified in Section 3594.

The pedigree of hybrid corn and the name of breeder who developed each inbred line involved in the cross shall be filed with the Montana Grain Inspection Laboratory of

the Montana Agricultural Experiment Sta-tion at Bozeman by the wholesaler or vendor of every lot of hybrid seed corn before such is offered for sale in Montana for seeding

NEBRASKA

Act As Revised to 1940, Rules and Regulations to 1940

INFORMATION REQUIRED ON ANALYSIS TAG

(All tags to be approved by Department of Agriculture and bear printed words, "State of Nebraska approved Official Label.")

(A) Agricultural Seeds. Ten pounds or more.

1. Commonly accepted name.
2. Percentage of pure seed.
3. Percentage of other crop seed (regulation not in the law.)
5. Percentage of inert matter (regulation not in the law.)
6. Name and number per ounce of noxious weed seeds present singly or collectively in excess of:

excess of:

(a) One seed in each 5 grams.

(See page 106, group A.)

(b) One seed in each 25 grams.
(c) One seed in each 100 grams.

Percentage of:
(a) Germination.
(b) Hard seeds. (Regulation.)
(c) Month and year of test.

Where grown.

8. Where grown.
9. Name and address of vendor.

(B) Mixtures of agricultural seeds of not more than 2 kinds. Ten pounds or more.

1. That such seed is a mixture.
2. Name and percentage of each agricultural seed present in excess of 5% of total mixture.
3. Percentage of weed seed.
4. Percentage of other crop seed (regulation not in the law.)
5. Percentage of inert matter (regulation not in the law.)
6. Name and number per ounce of each noxious weed present singly or collectively in excess of one seed in each 15 grams.
7. For each kind of agricultural seed present in excess of 5% give:
(a) Percentage of eermination.
(b) Percentage of hard seeds. (Regulation.)
(c) Month and year of test.
8. Where grown.
9. Name and address of vendor.

(C) Special Mixtures. Four ounces or more.

That such seed is a mixture.
 Name of each kind of agricultural seed present in proportion of 5% or more of the total mixture.
 Percentage of weed seed.
 Percentage of inert matter.
 Name and number per ounce of each noxious weed present singly or collectively in excess of one seed in each 15 grams.
 Where grown.

6. Where grown.7. Name and address of vendor.

(D) Vegetable seeds not included in law.

(E) Hybrid Seed Corn.

It shall be unlawful to sell any seed corn as "hybrid" unless it answers to the following description:

Hybrid seed corn shall be seed of the first generation of a cross involving two, three or four different inbred lines of corn or their combinations and shall be restricted to seed of single crosses, three way crosses and double crosses.

1. Single cross—The first generation hybrid between two inbred lines.

2. Three way cross—The first generation hybrid between a single cross and an inbred line.

Double cross—The first generation hybrid between two single crosses. The cross men-tioned above shall be produced by cross fer-tilization, controlled either by hand or by detasseling under isolation at the proper

The cross mentioned above shall be produced by cross fertilization, controlled either by hand or by detasseling under isolation at the proper

PROHIBITS SEED, GRAINS, OR FEED CONTAINING:
Bind weed—Convolvulus arvensis; Canada thistle—Carduus arvensis; leafy spurge—Euphorbia esula; puncture vine—Tribulus terrestris; perennial peppergrass—Lepidium draba; Russian knapweed—Centaurea pictic

ris.
GIVE NAME AND NUMBER PER OUNCE
OF THE FOLLOWING WEEDS WHEN PRESENT SINGLY OR COLLECTIVELY IN EXCESS OF THE ALLOWANCE UNDER (A)
6; (B) 6; (C) 5.
Quack grass—Agropyron repens; Dodder—
Cuscuta spp.; Wild oats—Avena fatua and
charlock or wild mustard—Brassica arvensis.

SEED LABORATORY AND TESTS

ENFORCEMENT

Enforcement under Department of Agriculture & Inspection, Capitol Building, Lincoln, Nebraska. Allen G. Burke, director.

REGULATIONS

(April, 1940)

(April, 1940)
Hard Seed. In labeling legumes, the germination must be kept separate from the hard seeds and can only include the percentage of seeds that actually sprout and produce normal seedling. Hard seeds are to be shown under a separate heading. A total of the germination and hard seeds may be shown but this total must be designated as "total of germination and hard seeds" and never as "total" or "total live seed."

NEVADA Law 1941

INFORMATION REQUIRED ON ANALYSIS TAGS OR CONTAINERS

(A) Agricultural Seeds. One pound or more.

- 1. Commonly accepted name and bushel weight.
- 2. Percentage of other crop seeds.
- Total number and kind of secondary noxious and common weed seeds present in each
- Percentage of inert matter.
- Name and number per pound of each second-ary noxious weed either singly or collectively present in excess of,

(a) one seed in each 5 grams (see page 106 group A).
(b) one seed in each 25 grams.
(c) one seed in each 100 grams.
6. Commonly accepted name of each discernible disease and the percentage of seeds infected by such disease and percentage of spores, sporeballs or other propagating organs of fungi responsible for disease present.
7. Percentage of germination, together with the month and year tested.
8. No noxious weeds present.
9. Name and address of vendor.

(B) Mixtures of Alsike and Timothy, Alsike and White Clover, Red Top and Timothy, or Alsike and Red Clover. One pound or more.

TWO OUTSTANDING PROFIT PRODUCERS

THE NEW MASTERS "HANDI-CART," "Successor to the wheelbarrow." Dealers throughout the country say the "HANDI-CART" has been one of their best sellers ever since its introduction by Masters a little over a year ago. And little wonder, for here is an item with instant appeal. Every home owner wants a "HANDI-CART" the minute he sets his eye on it.

Its Real Merit, Backed by Our National Advertising, Makes It a Sensational Seller.

The "HANDI-CART" ends backache and stooping. Front edge tips down so leaves, grass and rubbish may be raked in, and as easily dumped out. Durably made of strong sheet steel, with steel axles and rubber tires, attractively finished. So perfectly balanced that a child can handle it easily. Guaranteed to give lasting service and quality construction. Others imitate but there is only one original, genuine, plainly marked MASTERS "HANDI CART."

Imitations Are Being Made, Get the MASTERS for Quality Two Sizes: 2½ and 3¾
Cubic Feet.
Reasonably Priced with Generous
Profit Margin.
Write for Description and

Discounts

MASTERS PERFECT FERTILIZER DISTRIBUTORS

Unrivalled for Efficiency and Durability

For years the Masters line of Distributors has been generally acknowledged as the finest implements of their kind available. They are unsurpassed for even distribution of any dry material; commercial fertilizer, grass seed, top dressing, sand, lime, salt, etc. With shut-off control and adjusting device on handle, waste of materials is fully eliminated. Sturdily built of best materials, they give years of satisfactory service to the owner. Every Masters Distributor, large, medium or small,

Covers Every Inch of Ground but Leaves No Surplus Anywhere

Hoppers and all moving parts are non-corrosive; rotary agitator insures free e flowing and perforated Scatter Board sifts materials evenly. Larger sizes ideal for Estates, Parks, Golf Courses, Cemeteries, etc. Small machines for home use.



MASTERS HOME LAWN DISTRIBUTOR

For Home Use: A strong, sturdy, practical machine for medium size lawns. It, too, has handle shut-off control, revolving agitator, five plates for spread adjustments. Rubber tires, 18" spread, capacity 30 lbs.

MASTERS "BABY" LAWN DISTRIBUTOR

For Home Use: Spreads evenly; does beautiful job. Revolving agitator and handle shut-off control, 16" spread. 8½" steel wheels, capacity 15 lbs.

The Masters line of Distributors is in a class by itself, Superior design, materials and workmanship give longer life and greater efficiency. That is why we can positively guarantee customer satisfaction with any Masters product.

WANTED: Live Dealers for all Masters Guaranteed products. Their quality means added prestige and profit for every dealer.

Write for Further Information, Discounts, Etc.

MASTERS PLANTER COMPANY MASTERS BLDG., BENTON HARBOR, MICH.

ENGBRETSON SEED COMPANY



A Corner of Our Bent Grass Blending Floor, Showing a 28,000 Pound Blend of Blue Tag Astoria

Growers

ASTORIA BENT SEASIDE BENT FESCUES

and Special Strains of Other

FANCY GRASSES

ASTORIA

OREGON

Harvesting, on One of Our Own Farms, the First Commercial Planting of Chewings Fescue for Seed Purposes in the United States



That such seed is a mixture.
 Name and percentage of each kind of agricultural seed present in excess of 5% of the total mixture.
 Total number and kind of secondary noxious and common weed seeds present in each pound.
 Percentage of inert matter.
 Name of each secondary noxious weed present either singly or collectively in excess of one seed in each 15 grams of such mixture.
 Commonly accepted name of each discernible disease and the percentage of seeds infected by such disease and percentage of spores, sporeballs or other propagating organs of fungi responsible for disease present.
 Percentage of germination of each kind of agricultural seed present in excess of 5%, together with the month and year tested.
 No noxious weeds present.
 Name and address of vendor.

(C) Special Mixtures. One pound or

That such seed is a special mixture. Name and percentage of each kind of agricultural seed present in the proportion of 5% or more of the total mixture.

Total number and kind of secondary noxious and common weed seeds present in each pound.

Percentage of inter matter.

Percentage of inert matter.

Name of each secondary noxious weed present either singly or collectively in excess of one seed in each 15 grams.

Commonly accepted name of each discernible disease present and the percentage of seeds infected by such disease and percentage of spores, sporeballs or other propagating organs of fungi responsible for disease present. Percentage of germination of each kind of agricultural seed present in excess of 5% together with the month and year tested.

No noxious weeds present.
 Name and address of vendor.

(D) Vegetable included as agricultural seed. Label as under (A) above.

(E) White or Irish potatoes sold, offered or exposed for sale as Certified Seed. One pound or more.

Variety.
Percentage of inert matter.
That the potatoes have passed field and bin inspections necessary to qualify as BLUE TAG, BLUE TAG single drop or RED TAG field inspected seed.

PROHIBITS FROM SALE

Seed containing noxious weed seeds. No tolerance allowed.

NOXIOUS WEEDS. NO TOLERANCE SEED LABORATORY AND TESTS ALLOWED

Camel thorn—Alhagi camelorum; White top or Hoary cress—Lepidium draba, L. repens, Hymenophysa pubescens; Klamath weed—Hypericum perforatum; Russian knapweed—Centaurea repens; Leafy spurge—Euphorbia esula; Sow thistle—Sonchus arvensis; Canada thistle—Cirsium arvense; Iberian star thistle—Centaurea iberica; Purple star thistle—Centaurea calcitrapa; Yellow star thistle—Centaurea solstitalis; Morning-glory—Convolvulus arvensis; Austrian field cress—Rorpia austriaca; Buffalobur—Solanum rostratum.

SECONDARY NOXIOUS WEEDS

Five-hooked bassia—Bassia hyssopifolia; Crabgrass—Digitaria sanguinalis, D. ischaenium;
Charlock—Brassica arvensis; Fanweed—Thlaspi arvense; Sandbur—Cenchrus pauciflorus; Horsenettle—Solanum carolinense, S. elaeagnifolium;
Puncture vine—Tribulus terrestris; Dodders—

All species.

All species.

SEIZURE OF SEED. Whenever the state antine officer or his deputies receive informic that agricultural seeds, or mixtures of the mare being sold, offered or exposed for sale it state in violation of any of the provisions of act, and are of the opinion that such seel dangers the agriculture of the state, they had condemn and seize same. Any seed so of demned and seize same. Any seed so of demned and seized shall be promptly recket processed into feed or fertilizer, or compete devitalized, as ordered by the state quark officer and under his supervision.

SCREENINGS OR CLEANINGS from at commercial grain or agricultural seed as do in this act, which is offered for sale or so returned to the owner, shall be ground, I tero or otherwise processed, so as to completeld vitalize same in a manner approved by the state quarantine officer, before leaving the cleaning establishment.

College of Agriculture, Reno, Nevada.
P. A. Lehenbauer—Analyst.
No charge will be made for tests for New growers and seed dealers unless the privile being abused

Charges for tests for out of state dealers dividuals.

(a) Corn, peas, beans, cereals and seed of silla type or mixtures of the same, 25c; rests

(b) Alfalfa, clover, timothy, blue grass, recolumn and seeds of similar type, 50c; retests, 0c
(c) For mixtures of seeds in (b), 75c; rests

ENFORCEMENT

Under State Department of Agriculture, Box 1027, Reno. Nevada. Division of Plant Industry, L. M. Burge. Supervising Inspector.

NEW HAMPSHIRE

Law of 1921

INFORMATION REQUIRED ON ANALYSIS TAG

(A) Agricultural Seeds. One pound or NOXIOUS WEEDS more.

Commonly accepted name.
 Percentage of pure seed.
 Percentage of germination together with the month and year tested.
 Name and address of vendor.

(C) Vegetable seeds—Turnips, rutaba-gas, and mangels are considered agricultural seeds (A). Vegetable seed and Flower seed in tied or

sealed packages must be marked with the year tested.

SEED LABORATORY

(B) Special mixtures. One pound or more.

Name and percentage of each kind of agricultural seed present in excess of 5% of the total mixture.

Percentage of germination of each kind of agricultural seed in excess of 5%, together

with the month and year tested.
3. Name and address of vendor.
Agricultural Experiment Station.
Department of Agronomy.
Durham, New Hampshire.
Mrs. Bessie G. Sanborn, Analyst.

Tests
Citizens may submit samples of agricul seeds for test and analysis, subject to rules regulations adopted by the Commissioner.

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ENFORCEMENT

State Department of Agriculture. Concord, New Hampshire. Commissioner of Agriculture.

NEW JERSEY

INFORMATION REQUIRED ON **ANALYSIS TAGS**

(A) Agricultural seeds. Ten pounds or

Commonly accepted name.
 Percentage of pure seed.
 Number per pound of each noxious weed seed present in excess of one seed in each 5 grams or 90 seeds per pound.
 Percentage of germination together with the month and year tested.
 Name and address of vendor.

(B) Mixtures. Every lot.

That such seed is a mixture. Name of each kind of agricultural seed present in excess of 5% of the total mix-

Percentage of foreign seeds (weed seeds and agricultural seeds not present in excess of 5%).
Percentage of inert matter,

Number of noxious weed seeds present in excess of one seed in each 5 grams or 90 seeds per pound.
 Name and address of vendor.

(C) Vegetable seeds. One pound or more.

Name of seed.
 Percentage of germination together with the month and year tested.
 Percentage of inert matter if in excess of

4. Name and address of vendor.

NOXIOUS WEEDS

Quack grass—Agropyron repens; horse nettle—Solanum carolinense; dodder—Cuscuta species, Canada thistle—Carduus arvensis; Russian knapweed—Centaurea picris.

SEED LABORATORY AND TESTS

Seed Laboratory, Agricultural Experiment tion, New Brunswick, New Jersey.

Lesia G. Fische State State Seed Analyst

SEIZURE.

The State Seed Analyst, or his deputies, may seize and hold any lot, parcel or package of agricultural or vegetable seed found in violation of any provisions of this act or rules and regulations hereunder, until the law or such rules and regulations have been complied with,

or said violation otherwise disposed of as lein provided:

(a) Worthless seed forfeited to the state, to disposed of. Worthless seed shall be:

1. Seed of no seeding or feeding value
2. Seed containing in excess of 1 nox weed in every five grams of such or 90 per pound.

(b) Seed not properly labeled shall be held until the proper analysis and have been provided.

Seed found to be misrepresented as to I shall be condemned and its sale prohibi

Seed Laboratory, Agricultural Experiment tion. New Brunswick, New Jersey. Jessie G. Fiske, State Seed Analyst. Tests—Any citizen of the state may receiv limited number of tests without charge.

ENFORCEMENT

Board of Managers of the New Jersey A cultural Experiment Station.



(Above) NITRAGIN inoculation made the difference in this experimental station test field. Inoculated soybeans (right) are heavy, dark green and free of weeds. Uninoculated soybeans (left), because they are less vigorous and slower growing, have been smothered out by grass and weeds. Every planting of legumes—alfalfa, clovers, vetch, peas, etc.—should be inoculated.

Legume inoculant is one thing farmers must buy on faith. Inoculating bacteria cannot be seen without a powerful microscope, and there is no way to quickly demonstrate the effectiveness of different brands or strains. That's why Nitragin's extensive research and testing, and Nitragin's reputation for quality is of great value to farmers and dealers alike. For over 40 years farmers have seen NITRAGIN inoculation make bigger yields, increase protein content of legume hay and seed, and build soil fertility. The Nitragin Laboratories are the largest and most complete laboratories of their kind.

MORE SALES, MORE PROFITS FOR NITRAGIN DEALERS

Nitragin is the oldest, best known and most widely used inoculant in America. Nitragin advertising builds business for seed dealers. Nitragin is advertised in nearly every leading farm paper and over a number of radio stations. Store signs, counter displays, etc. are furnished the Nitragin dealer. Sell NITRAGIN every time you sell clover, alfalfa, vetch, soybeans or other legume seed in 1942. If you are not already a Nitragin dealer, write-



Read Guarantee - PAG

MANY BILLION LEGUME B

HIGHEST QUALITY AT LOWEST

THE NITRAGIN CO., INC.

3830 N. Booth St., Milwaukee, Wis.



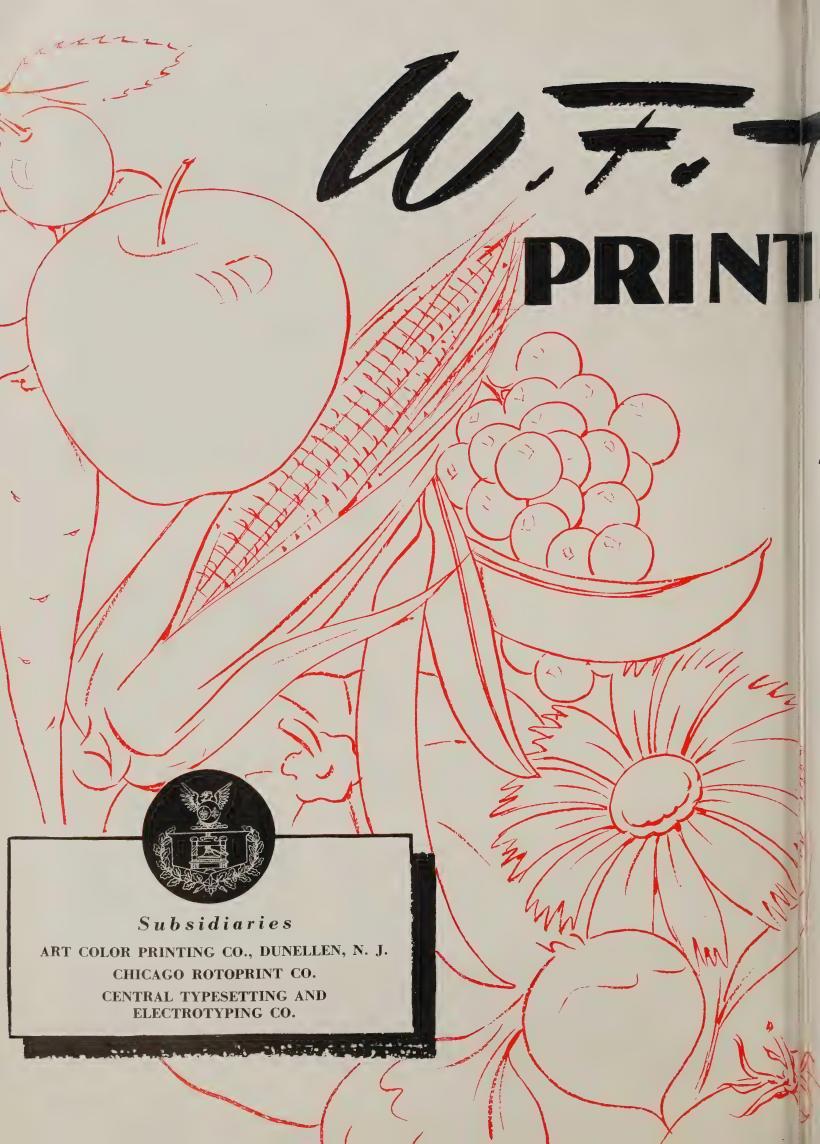
(Above) In this field, 39 strains of soybean bacteria are being tested. Nodulation studies and yields of hay and seed help Nitragin scientists select the most efficient strains.



(Above) In this laboratory, Nitragin scientists determine how the protein content and feeding value of legume hay and seed is influenced by various strains of bacteria.

YOUR PROTECTION

The name NITRAGIN is a registered trademark put on every can for your protection. It identifies the only inoculants containing NITRAGIN'S highly effective strains of legume bacteria.



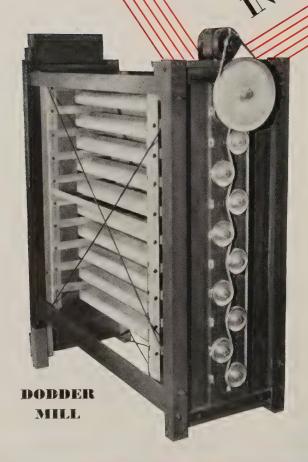
Hall

ING COMPANY CHICAGO · NEW YORK

There must be a reason! We have been the largest seed catalog printer in this country for nearly two decades Year after year we have produced from six to seven million seed catalogs of high quality on time With our modern equipment and experienced personnel we offer you an unexcelled seed catalog service We would appreciate an opportunity to help you plan your printing requirements.

THE WAKES EPORTIONS

More Profitable OF THE WORLD!



As a SALVAGE MILL, it is way out in front of everything. Given the work to do, it will pay for itself many times over with a minimum of operating expense.

We invite the closest investigation and comparison with any other Recleaner in the world.

"Our Mill paid for itself with the seed salvaged from the first lot of tailings run over it." Worth thinking about, you will agree.

We make a Tester of convenient size, which should be in the hands of every buyer and Analyst. Equip your force with these little marvels, and eliminate all guess work in your purchases.

W. A. RICE SEED CO.

JERSEYVILLE, ILLINOIS

NEW MEXICO

Law of 1919

INFORMATION REQUIRED ON ANALYSIS TAGS

(Not less than 8 point Gothic caps)

(A) Agricultural seeds. One pound or

- 1. Commonly accepted name of kind and va-
- Percentage of all foreign seeds combined in

INFORMATION REQUIRED ON

(B) Mixtures. Every lot.

ANALYSIS TAG OR CONTAINER (A) Agricultural seeds. Every lot.

Percentage of all foreign seeds combined in such agricultural seeds.

Percentage of inert matter.

Percentage of each noxious weed present.

Percentage of germination of such agricultural seed together with the month and year tested.

The commonly accepted name.

Percentage of pure seed.

Percentage of weed seeds. Prohibited if in excess of 1.5%.

Name and number per pound of each noxious weed present singly or collectively in excess of:

excess of:
(a) one seed in each 5 grams.
(See page 106, group A.)
(b) one seed in each 25 grams.
(c) one seed in each 100 grams.
5. Percentage of:
(a) Germination, exclusive of hard seeds.
(b) Hard seeds. (Regulation.)
(c) Month and year of test.
6. Name and address of vendor.

Mixtures. Every lot.

1. That such seed is a mixture.

2. Name and percentage of each kind of agricultural seed present in excess of 5% of the total mixture.

3. Percentage of weed seeds. Prohibited if in excess of 1.5%.

4. Name and number per pound of each kind of noxious weed present singly or collectively in excess of one seed in each 15 grams.

5. For each kind of agricultural seed present in excess of 5% give:

Percentage of:

(a) Germination, exclusive of hard seeds.
(b) Percentage of hard seeds. (Regulation.)
(c) Month and year of test.

6. Name and address of vendor.

That such seed is a mixture.

Name and percentage of each kind of agricultural seed present in proportion of 5% of the total mixture.

Percentage of weed seeds. Prohibited if in excess of 1.5%.

Percentage of inert matter. Prohibited if in excess of 20%.

Name and number per pound of each kind of noxious weed present singly or collectively in excess of one seed in each 15 grams.

- 6. County where grown if in this state.
- 7. Name and address of vendor.

(B) Mixture not mentioned.

(C) Vegetable seed not included under law.

NOXIOUS WEEDS

Quack grass; fanweed or French weed; mustard; wild oats; dodder.

SEED LABORATORY AND TESTS

Seed Laboratory, New Mexico State College of Agriculture and Mechanical Arts.

Department of Agronomy, at State College, New Mexico.

J. C. Overpeck, Professor Agronomy.

Tests-Residents of the state may send samples for tests to the New Mexico College of Agriculture which shall be reported upon free of charge not to exceed 6 tests in any calendar month.

ENFORCEMENT

Board of Regents of the New Mexico College of Agriculture and Mechanic Arts.

NEW YORK

Law of 1922 As Amended 1940

- 6. For each kind of agricultural seed present in excess of 5% give:

 (a) Percentage of germination, exclusive of hard seeds.

 (b) Percentage of hard seeds. (Regulation.)

 (c) Month and year of test.

 Name and address of vendor.

(D) Vegetable seeds. Each separate con-

- Find of seed and the variety.

 Percentage of germination together with the year seed was tested (using type not smaller than 10 point).

 Name and address of person or firm that packeted the seed and labeled the same.

(E) Flower seeds. Each separate container.

- Kind of seed and variety.
 Name and address of person or firm that packeted the seed and labeled the same.

(F) Tree and Shrub Seeds. Each sep-

- Tree and Shrub Seeds. Each separate container.

 1. The kind of seed, and the variety.
 2. The approximate percentage by weight of pure seed.
 3. The approximate percentage of germination.
 4. The year of collection of such seed.
 5. The specific locality (state and county in the United States, or nearest equivalent political unit in the case of foreign countries) in which the seed was collected.
 6. The name and address of the vendor of such seeds.

(G) Potatoes. Each separate container.

- The variety or varietal type.
 U.S. grade of the contents.
 Name and address of grower or vendor.

NOXIOUS WEEDS

Quack grass—Agropyron repens; wild mustard—Brass:ca arvensis and other Brassica species; Canada thistle—Cirsium arvense; dodder—Cuscuta species; crabgrass—Digitaria species; docks—Rumex species.

"STOP SALE." The commissioner or his authorized agents may remove from further sale or prohibit from sale, any unlabeled seed or any seed which is found to be grossly unclean as to be unfit for seeding purposes until it has been properly recleaned, and may prohibit further sale or destroy after due process of law, seeds which are found to be so weak or low in germination as to be useless for seeding purposes.

SEED LABORATORY AND TESTS

Seed Laboratory.
New York State Agricultural Experiment Station, Geneva, New York.
M. T. Munn, State Seed Analyst.

ENFORCEMENT AND REGULATIONS

Enforcement—Department of Agriculture, Albany, New York. Holton V. Noyes, Commissioner of Agriculture.

Regulations—Use of word "certified" limited to seed which has been certified by an official of a State or Federal agency (part of the law). "Commonly accepted name" shall mean the complete botanical designation commonly accepted by the public and seed trade as Leaming corn, Ithacan oats, Grimm alfalfa, not simply corn, oats and alfalfa.

Germination shall mean the percentage of seeds which are capable of sprouting promptly into normal seedlings. Hard seeds as found in legumes may be stated separately and shall not be added to the percentage of germination or used in such a way as to be misleading.

"Seed unfit for seeding purposes" shall be understood to mean those lots which contain noxious weeds in excess of 1.5% of troublesome weeds or special lawn seed mixtures containing in excess of 20% of inert matter. These are subject to removal from sale.

Seed stocks showing less than one-half the so-called standard germination as accepted in seed control and seed trade practices shall be considered too low in germination and unfit for sale.

The term "hybrid" must not be used in construction in the constitution of the constitutio

The term "hybrid" must not be used in connection with any kind of seed corn unless such stock is the seed of the first generation of a controlled cross between strains of different parantage and involving one or more inbred lines of corn or their combinations.

NORTH CAROLINA

Law of 1941, Regulations of 1941

INFORMATION REQUIRED ON ANALYSIS TAGS

(C) Special mixtures. Every lot.

Use North Carolina state tags.

- (A) Agricultural seeds. Ten pounds or more.
 - 1. Commonly accepted name of:
- Commonly accepted name of:

 (a) Kind or

 (b) Kind and variety.

 Lot number or other identification number.

 Percentage of purity.

 Percentage of weed seeds. Prohibit if in excess of 3%. Dallis grass and carpet grass 5%.

 Percentage of other agricultural seeds.

 Percentage of:

 (a) Germination, exclusive of hard seed.

 (b) Hard seed.

 (c) Month and year of test. The test for germination shall have been completed within nine months prior to sale or exposure for sale.
- Origin, if unknown it must be so stated.
 Name and address of person labeling seed, or who sells, offers or exposes seed for sale.
 Name and number per pound of secondary noxious weed seeds. (Regulation.)
 Requirements under 3, 4, 5, 6 and 10 shall not apply to cotton, corn and tobacco.

(B) Mixed agricultural seeds. Ten pounds or more.

Same as for unmixed seed, except that it must be called "mixed" or a "mixture" and the information required under 1, 3, and 7 shall be given for each agricultural seed present in excess of 5%.

(C) Vegetable seeds. Ten pounds or more.

Name of kind and variety.
 Seed which germinates equal to or above the standard last established, the words "NORTH CAROLINA STANDARD" may be used in lieu of the actual germination. For standards see page 102.

- 3. For seed which germinates less than the standard last adopted give:

 (a) Percentage of germination, exclusive of hard seeds.

 (b) Percentage of hard seeds.

 (c) Month and year of test. The test for germination shall have been completed within nine months prior to sale or exposure for sale.

 (d) The words "BELOW STANDARD."

 4. Name and address of person labeling seed, or who sells, offers or exposes seed for sale.

(D) Vegetable seeds.

In containers of less than ten pounds which germinate less than the standard last adopted, shall show the actual germination.

PROHIBITS THE SALE OF-

- Seed, unless the germination test shall have been completed within a nine month period.
 Seed containing Primary noxious weeds subject to the tolerances prescribed in the rules and regulations.

SWEET CLOVER **ALFALFA**

BROMUS INERMIS CRESTED WHEAT GRASS WHEAT GRASS SLENDER **WESTERN WHEAT GRASS TIMOTHY** ALSIKE CLOVER

> **GARDEN SEEDS** In Bulk and Packets

Magill & Co.

Since 1887 Operating

Fargo Seed House

FARGO

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FARM

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SEEDS

A WHOLESALE BROKERAGE SERVICE THAT IS JUST A LITTLE DIFFERENT

Correspondence invited with growers and wholesalers considering a profitable brokerage connection.

37 years' personal experience in the Cincinnati market

CHARLES R. MOORE

Chamber Commerce Bldg. CINCINNATI, OHIO

Cables-Morseed Telephone-Main 4246

- Small grains (wheat, oats, rye and barley) containing more than 100 Secondary noxious weed seeds per pound.
 Seed containing more than 2,500 dodder per pound.
 Seed containing in excess of 3% of weed seeds except carpet grass and Dallis grass which shall not exceed 5%.

NOXIOUS WEEDS

PRIMARY NOXIOUS WEEDS. PROHIBITED. Johnson grass—Sorghum halepense; bindweed—Convolvulus arvensis.

SECONDARY NOXIOUS WEEDS.
Wild onion—Allium vineale; corncock'e—Agrostemma githago; cheat—Bromus secatinus; dodder—Cuscuta spp.

- "STOP SALE." The Commissioner of Agriculture or his authorized agents shall issue "Stop Sale" orders which shall probibit further sale of any lot of seed which he has reason to believe is being offered or exposed for sa e in violation of any provisions of this act, until the law has been complied with, or said violation otherwise legally disposed of.
- WITHDRAWAL FROM SALE. The Commissioner of Agriculture may withdraw from sale seed not having a reasonable viability or that are extremely impure, or that are of distinct low quality otherwise, notwithstanding they may be properly labeled, when such withdrawal is in the interest of normal crop production.

SEED LABORATORY AND TESTS

Seed Laboratory, Department of Agriculture, Raleigh.

J. W. Woodside, Botanist.

Tests—Free to citizens of the state. To nonresidents the fee for purity 25 cents and for
germination 25 cents.

ENFORCEMENT

Enforcement—Department of Agriculture, Raleigh, North Carolina.
D. S. Coltrane, Assistant to Commissioner.

Licensing.
Each seed dealer selling, offering or exposing for sa'e in, or, for export from this state, of any agricultural, vegetable or flower seed, other

than packet or package-seeds, for seeding purposes, shall register with the Department of Agriculture the name of suca dealer, and shall on the first of January annually obtain a license paying:

- (1) \$25.00 if a wholesaler or a wholesaler and
- (2) \$10.00 if a retailer with sales in excess of \$100.00 for the calendar year. Each b. anch of any who esaler or retailer shall obtain a retail license.
- (3) \$1.00 if a retailer at a permanent location with sales not in excess of \$100.00. (Owners or operators of harvesting or threshing machines operating on a share basis and seling only seed obtained in this manner shall be exempt from obtaining a license.)

amps.
Inspection stamps of \$1.00 shall be purchased from the Department of Agriculture for each 72 dozen packets or packages of vegetable or flower seeds or portion thereof.

- (1) Stamps shall be secured by the producer, grower, jobber or other person, firm or corporation shipping such seed into the state before shipment to agent or retailer, and furnished to said agent or retailer for attachment.
- (2) Producer, grower or jobber or other person, firm or corporation, residing within this state shall secure said stamps and attach to the display case before said seed is offered for sale.
- (3) When package seed of one kind or variety are offered or exposed for sale in boxes or display cases not in excess of three dozen packages, a ten cent stamp shall be purchased and attached to said box.

Tags.

- ags.

 (1) A North Carolina seed analysis tag purchased from the Department of Agricultule for 1 cent each shall be attached to each container of 10 pounds or more. If shipped into the state, said tag shall be secured by person shipping such seed.

 (2) Seed containing more then 500 dodder seed per pound shall be designated as "Low Grade Seed" and shall be labeled with a red tag.

NORTH DAKOTA

Act of 1931 Regulations of 1939, Amended 1941

INFORMATION REQUIRED ON ANALYSIS TAGS

(A) Agricultural seeds. Every lot.

- Commonly accepted name.
- Lot number or other lot identification.
- Percentage of purity.
- Percentage of inert matter.
- Percentage of weed seeds.
- Percentage of other agricultural seeds. Percentage of germination, together with the month and year of test.

 NOXIOUS WEEDS
 PROHIBITED NO
- Where grown—state and county in case of corn, and state in case of alfalfa and clovers.
- Name and address of vendor.
- Name and address of vendor.

 Seed containing noxious weed seeds shall be labeled to show their presence if present, singly or collectively, in excess of: "Prohibited Noxious Weed Seeds"—1 seed in 90 grams.

 "Primary Noxious Weed Seeds"—1 seed in 20 grams.

(B) Mixtures of two kinds. Every lot.

- 1. That such seed is a mixture.
- Name and percentage of each kind present in excess of 5% of total mixture.
- Name and number per pound of each kind of noxious weed present singly or collectively in excess of one seed in each 15 grams.

 Percentage of germination of each kind present in excess of 5% together with the month and year tested.
- Where grown, state and county in case of corn, and state in case of alfalfa and clover.
- 6. Name and address of vendor.

(C) Special Mixtures. Every lot.

- 1. That such seed is a mixture.
- Name of each seed which is present in proportion of 5% or more of the total mixture
- 3. Percentage of weed seed.
- Percentage of inert matter.
- Name and number per pound of each kind

- of noxious weed present singly or collectively in excess of one seed in each 15 grams.
- 6. Name of county and state where each variety of seed corn in mixture was grown. 7. Name and address of vendor.
- (D) Vegetable and Flower Seed in lots five pounds or less are excluded from label requirements.

PROHIBITED NOXIOUS WEEDS

Leafy spurge (Euphorbia esula). Field bindweed (Convolvulus arvensis).

Perennial peppergrass or White top (Lepidium draba, L. repens, Hymenophysa puum dra bescens.

Russian knapweed (Centureau picris).

PRIMARY NOXIOUS WEEDS

Quack grass (Agropyron repens). Čanada thistle (Cirsium arvense). Perennial sow thistle (Sonchus arvensis). Dodder (Cuscuta spp. except coryli).

SEED LABORATORY AND TESTS

Seed laboratory, State College Station, Fargo. Miss Edith Higgins, Analyst. Any resident of North Dakota may have three free tests per year, additional test fees are:

Purity Tests
Clovers, alfalfa, cereals, flax, corn beans, peas, etc \$0.50 Grass seeds, or mixtures of grass and/or clover seeds\$1.00

Fees for non-residents
 Purity
 \$1.50

 Germination
 1.00

ENFORCEMENT AND REGULATIONS Enforcement is under State Seed Dept., State College Station, Fargo.





PREE-PLANT

Thompson's PREE-PLANT is a hor-mone-B-Complex vitamin powder. (Contains also an organic nitrogenous

ompound.) Simple to use; it's merely DUSTED on! Hastens germination and more rapid, sturdier root growth in flow-er and grass seeds and bulbs. Effective in the field—and in sales!



REE-ROOT

A newly developed hormone - B - Complex vitamin treatment for rapid rooting of cut-

treats thousands of cuttings. Packed in two formulas: (1) for sensitive plants; RETAIL PRICES: No. 1-

1 lb. . \$5



100 tabs.....\$1

TRANSPLANT TABLETS

A "lifesaver" in transplanting seedlings, plants, shrubs, trees. Counteracts root shock and wilt-

ing ... induces rapid, healthy recovery. A combination of plant hormones with Vitomin B Complex. Every gardener needs it. Two tablets make one gallon. RETAIL PRICES: 40 tabs. 500 tabs \$4

hompson's VITAMIN B1 PLUS PELLETS

Always a best seller. In the original pellet form for ready use. Containing with Bi, all the known factors in Vitamin B-Complex. • As a "companion piece," sell too, Thompson's VITA-MIZER. Attaches to garden hose, automatically mixing solution. RETAILS with 100 B₁ plus Pellets (combination offer) for \$1.89.

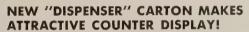


Thompson research wins you profits with these fast-selling items

DEVELOPED IN THE LABORATORY • FIELD TESTED HANDILY PACKAGED • EASY TO USE • PRICED TO SELL

Science and merchandising go to work for you in this modern line of hormone-vitamin products. Here is "Packaged Research" your customers want . . . new, scientific aids to better gardening. Simple to use . . . easily handled . . . readily sold. Push them. They'll pay you a handsome return! And note: Thompson guarantees supply and prices for the coming year. Order your stocks from your nearest Thompson jobber now!

NO "BURNING" OF PLANTS WITH THOMPSON PRODUCTS! Modern research shows the vitamins work with the hormones in stimulating growth . . . preventing the tendency of hormones—when used alone—to "burn" plant tissues. A strong sales point with your customers.



Thompson's new hormone-vitamin package does double duty for you—as a carton, as an effective counter "salesman." Keep it up front; it helps you sell more with less effort! Contains 1/4 doz. of each product.





Make selling easier with hompson's FREE ELECTRO SERVICE For Your Catalog • For Local Advertising

These are your ads...for your profit. Use them in your catalogs -either separately or together to make a page. Ideal for local newspaper advertising too! Just add your store name (signature plate or type-set) and you have a complete sales message in each one. Compactly designed to save space; "big" in sales punch to attract new customers.

WE FURNISH AS MANY AS YOU WILL USE WITHOUT CHARGE

 Send for Free Broadside Showing **Complete Series of Advertisements**

WM. T. THOMPSON CO. Horticultural Division

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TURF GRASSES

Our specialty is domestic and imported grasses for use in lawn mixtures. We shall be glad to quote at any time.

When in a hurry phone LD-66

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Marysville, Ohio

GBAIN WOOT.

DONLEY'S

Super-Cleaned

FIFIN

LAWN SEED

J. L. DONLEY & BRO.

ASHLAND

NHIR

5. As "Yellow Blossom TYPE Sweet Clover" provided the mottled seed content is in excess of 7%. Such mottled seed will be included in the percentage of purity. Any other sweet clover labelled as a specific variety, such as Artic, Alpha, or Madrid, shall conform to the characteristics of that variety.

HYBRID CORN

Regulatory Announcement No. 17

a. The use of the term "hybrid", in connection with seed corn offered or exposed for sale shall be restricted to first generation stock of a cross, the parentage of which involves one or more inbreds.
b. An Inbred Line shall consist of a line of corn that has been developed as a result of about five generations of controlled self-fertilization and selection, and/or when the inbred line is relatively uniform and homozygous.

Inbred line is relatively uniform and homozygous.

A Foundation Hybrid (single cross) shall consist of the first generation of a hybrid between two inbred lines to be used in the production of hybrids containing more than two inbred lines, and/or an advance generation single cross (hybrid) which has been grown under controlled conditions, certified and designated to be used as a foundation hybrid.

A Commercial Hybrid is the first generation cross to be planted for the production of feed or for any other commercial or farm use except for seed. It may be any one of the following:

(1) A Double Cross—the first generation of a cross between two foundation hybrids (single crosses).

(2) A Three-Way Cross—the first generation of a cross between a foundation hybrid (single cross) and an inbred line.

(3) A Single Cross—when the single cross is to be used for commercial production and not for the production of double or three-way crosses.

or three-way crosses.

(4) A Top Cross—the first generation of a cross between an inbred line and an open-pollmated variety.

The State Seed Commissioner is authorized to be guided by such rules as have been adopted by the Corn Certification Committee of the International Crop Improvement Association and by suggestions received from the North Dakota Agricultural Experiment Station.

The Seed Commissioner is authorized to conduct all work in connection with the registration and certification of hybrid corn on a cost basis.

EES

a. Field inspection fee for each field: First acre, \$5.00; each additional acre up to 25 acres, 75 cents per acre; and each additional acre OVER 25 acres, 50 cents per acre.

b. Certification tags will be supplied at the rate of one and one-half cents per bushel.

c. The entire acreage of inbred lines and foundation hybrids (including pollen parent) will be considered as one combination for the purpose of determining charges on these. However, the charge for these will equal one and one-half times the amount indicated in the above table.

The vendor of hybrid seed corn shall be responsible for there being on file with the State Seed Commissioner an affidavit giving the name or number by which it is to be sold, and further that the inbreds involved in the hybrid are the same each time the hybrid is so designated.

In addition to labeling requirements ((A)

nated. In addition to labeling requirements ((A) above), every lot, package, parcel or bag of seed corn sold as "Hybrid" corn shall have on the tag the name and/or number by which the hybrid is designated.

OHIO As Amended 1937

INFORMATION REQUIRED ON ANALYSIS TAGS

(A) Agricultural seeds. Every lot.

Agricultural seeds. Every lot.

1. Commonly accepted name.
2. Percentage of pure seed.
3. Percentage of weed seed.
4. Name and number per ounce of each kind of noxious weed present singly or collectively in excess of (Prohibit 3% or over)
(a) one seed in each 5 grams.
(See page 106, group A.)
(b) one seed in each 2.5 grams.
(c) one seed in each 100 grams.

5. Percentage of:
(a) Germination, exclusive of hard seeds.
(b) Hard seeds.
(c) Month and year of test. Test date shall not be over 300 days old. Tolerance of not over 10% allowed.
6. Where grown on red clover and alfalfa.
7. Name and address of vendor.

(B) Mixtures. Every lot.

hibited.)

4. Name and number per ounce of each kind of noxious weed seed present singly or collectively in each 15 grams.

5. For each kind of agricultural seed named on the label give:
(a) Percentage of germination, exclusive of hard seed.
(b) Percentage of hard seed.
(c) Month and year of test. Test date shall not be over 300 days o'd. Tolerance of not over 10% allowed.

(C) Vegetable seeds.

Vegetable seeds.

1. In containers of less than one pound, if germination is equal to or above germination standards. (See page 102.)

(a) Kind and variety.

(b) Name and address of person, firm or corporation responsible for labeling on the container.

2. In containers of one pound or more and container of less than one pound when the seed germinates less than the Ohio germination standard. (See page 102.)

(a) Kind and variety.

(b) Percentage of germination with the month and year of test.

(c) Name and address of person, firm or corporation responsible for labeling on the container.

3. Packet seed prohibited if germination is below Ohio standard. (See page 102.)

(D) "Certified" limited to seed certified by an approved agency—certifica-tion tag attached to container must show

Grower's name and address or his number registered with the Department of Agricul-

Name of certifying agency.
The state of production.
Such other information as pertains to certification.

Prohibits the sale offering or exposing for sale of-

Agricultural seed containing in excess of 3% of noxious weeds.
 Seed with a germination date test of more than 300 days old prior to date of sale.
 Packet seed prohibited if germination is below Ohio standard.
 Mixtures of agricultural seed containing over 15% inert matter.

Mixtures. Every lot.

1. That such seed is a mixture.

2. Name and percentage of each kind of agricultural seed present in excess of 5% of the total mixture. (If any agricultural seed named on the label is present in amount less than 5%, the percentage of such seed shall be given.)

3. Percentage of weed seeds. (Prohibit 3%.) (If inert matter exceeds 15% sale is prohibited.)

4. Name and number per ounce of each kind when a species (includes buckhorn); wild carrot—Daucus carota; ox-eye daisy—Chrysanthemum leucanthemum; corn cockle—Agrostemma githago; docks—Rumex species (including Rumex acctosella or sorrel); chicory—Cichorium intybus.

SEED LABORATORY AND TESTS

D LABORATORY AND TESTS

State Department of Agriculture.

Division of Plant Industry.

Columbus, Ohio.

C. N. McIntyre, State Seed Analyst.

Free tests—purity and germination 4 samples of red clover or similar seed, two samples of red top or similar seed or one sample of lawn mixture or five germinations of vegetable seeds.

Additional samples will be charged at the rate of 25 cents for all germinations.

Purity tests—clovers, alfalfa timothy, etc. \$.50 grasses as bluegrass, redtop. 1.00 mixtures of lawngrass. . . . 2.00

ENFORCEMENT

Enforcement—Department of Agriculture.

Division of Plant Industry.
Columbus, Ohio.
Stanley E. Laybourne, Chief.
License—Each person or company shall pay a license fee to the Director of Agriculture for each separate place of business, according to quantities sold.
Quantities not exceeding 8 ounces for each \$25.00 v holesale value —\$.25 tax stamp

One of the Most Beautiful and Consistent "Profit-Making" Displays on Seed Dealer's Counter



Your profit

from the

No. 1 TABLET PLANT FOOD

Display of this Plantabbs "Self-Seller" containing a dozen 25c boxes is quick way to profit . . . a year around item; equally effective for indoor plants and garden flowers.

Nationally advertised in Life, Better Homes and Gardens, Hollands, Sunset, Christian Science Monitor, and other powerful publications.

Write for our Seedsmen's Proposition



SNELSON SEED CO.

Savannah, Ga. Jacksonville, Fla.

Let Us Quote You on Any of the Following

Austrian Winter Peas

Beardless Barley

Beggarweed

Bene

Bermuda Grass

Cane

Clover

Alyce Black Medic

Burr Crimson White

Chufas

Corn, field

Cotton (sea island, long staple only) Cowpeas

Crotalaria

Dallis Grass

Feterita

Field Peas Grohoma

Hegari

Johnson Grass

Kafir Corn Kudzu

Lespedeza

Lupines
Millets
(Cattail and
Brown Top)

Milo Maize Mung Beans Peanuts

Rape

Redtop

Reed Canary Grass

Rescue Grass Rhodes Grass

Rice

Ryegrass

Seed Grains

Sesbania Sorghums

Soybeans

Sudan Grass

Sunflower

Velvet Beans
Vetch

Wholesale Field and Grass Seed

Reliable FARM SEEDS



Carpet, Dallis, Rye, Other Grasses. Crimson, Hop, Lappacea, White Dutch, Other Clovers. DPL Cotton, Crotalaria, Hybrid Corn, Lespedeza, Sesbania, Small Grains, Soybeans, Austrian Peas, Vetch, Wild Winter Peas, Ceresan, Seed Treaters, Etc.



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ALABAMA

OKLAHOMA ALFALFA SEED

U. S. Verified Origin and Okla. Approved Origin

Oklahoma Approved Origin Tagged Alfalfa Seed meets all requirements of AAA Program in North Central States.

Truck lots—Carlots

Growers of Bermuda and Sweet Spanish Onion plants

Growing Station—Crystal City, Tex.

Keller Seed Store

(Established 1901)

SHAWNEE, OKLA.



SPECIALTIES

Alsike Red Clover White Clover Ladino Clover Yellow Hop Clover **Black Medic** Hairy Vetch **Spring Vetch** Hungarian Vetch Austrian Peas Crimson Clover Chewinas Fescue **Domestic Rye Grass** Perennial Rye Grass Seaside Bent Grass

Astoria Bent Grass

Oregon Highland Bent Reed Canary Grass

IENKS WHITE SEED I

Quantities not to exceed 10 pounds for any container...\$2.50 Quantities up to and exceeding 10 pounds for any container...\$5.00

REGULATIONS

Hard seeds must not be added to sprouted seed and designated as "total germination" or "total viable seed" or "total live seed." "Other Crop Seeds" must not be added in with the total purity percent on the label. The word "Hybrid" as applied to field, sweet or popcorn, shall not be used unless the "hybrid" corn represents the first generation of a cross involving (one, two, three or four) diff-

erent inbred lines of corn or their combinations. Hybrid Seed Corn—The word "Hybrid" as applied to field, sweet or popcorn, shall not be used unless the "hybrid" represents the first generation of a cross involving one, two, three or four different inbred lines of corn or their combinations. In addition to labeling requirements (A) every lot, package, parcel or bag of seed corn sold as hybrid shall have plainly written or printed on the tag or label the name and number by which the hybrid is commonly designated. The vendor shall be responsible for registering with the Director of Agriculture, the pedigree of the hybrid and name of person, firm or corporation who developed each inbred involved in the cross.

OKLAHOMA Statutes of 1931

INFORMATION REQUIRED ON ANALYSIS TAGS

(A) Agricultural Seeds. Every lot.

gricultural Seeds. Every lot.
Commonly accepted name.
Percentage of pure seed.
Percentage of weed seed.
Name of each kind of noxious weed seed present singly or collectively in excess of:
(a) One seed in each 5 grams.
(See page 106, group A.)
(b) One seed in each 25 grams.
(c) One seed in each 100 grams.
Percentage of germination, together with the month and year tested.
Name of state and county where grown; if unknown mark "origin unknown."
Name and address of vendor.

7. Name and address of vendor.

(B) Mixtures. Every lot.

1. That such seed is a mixture.

2. Name and percentage of each kind of agricultural seed present in excess of 5% of the total mixture.

3. Percentage of weed seeds.

4. Percentage of inert matter.

5. Name of each noxious weed seed present singly or collectively in excess of one seed in each 15 grams.

6. Percentage of germination of each kind of agricultural seed present in excess of 5%, together with the month and year tested.

7. Name of state and county where grown. If unknown, label "origin unknown."

8. Name and addres of vendor.

(C) Vegetable seeds.

(C) Vegetable seeds.

The term agricultural seeds includes stock beets, sugar beets, cabbage, tomatoes, onions, and all other field crops grown in Oklahoma: hence, all vegetable and truck seeds sold in quantity would come under labeling requirements (A). Small packets are not included under the law.

NOXIOUS WEEDS

(February, 1940)
Bindweed (Convolvulus arvensis)
Blueweed (Echium vulgare)
Bracted plantain (Plantago aristata)
Buckhorn (Plantago lanceolata)

Buffalo-burr (Solanum rostratum)
Bullnettle (Jatropha stimulosa, Solanum carolinense)
Chess or Cheat (Bromus secalinus)
Coco grass or nut grass (cyperus rotundus)
Corncockle (Agrostemma githago)
Dock, curly (Rumex crispus)
Dodder (Cuscuta arvensis, C. epithymum)
Hedge bindweed (Convolvulus sepiom)
Horsenettle (Solanum carolinense)
Johnson-grass (Sorghum halepense, syn. Andropogon halepense)
Mustarol, wild (Brassica arvensis)
Oats, wild (Avena fotua)
Onion, wild (Allium vineale)
Russian-thistle (Salsola pestifer, syn. Salsola kali var. tenuifolia)
Sow thistle, perennial (Sonchus arvensis)
Sorrel, red (Rumex acetosella)
Thistle, Canada (Cirsium arvense)
Wild buckwheat (Polygonum convolvulus)
Wiregrass (Cynodon dactylon, syn. Capriola dactylon)

SEED LABORATORY AND TESTS

State Seed Laboratory, State Board of Agriculture, Oklahoma City, Oklahoma.
Parks A. Yeats, State Seed Analyst and Plant Quarantine Officer.
Tests—Each resident allowed 8 free samples in one year. Additional tests will be 50 cents for a complete test and 30 cents for either purity or germination. Non-resident fee 50 cents for each sample.

ENFORCEMENT AND REGULATIONS

ORCEMENT AND REGULATIONS
Enforcement under State Seed Analyst and
Quarantine Officer who is responsible to the
State Board of Agriculture.
A quarantine regulation was issued August 1935,
on all field seeds entering Oklahoma unless
tagged with a complete label as (A) and accompanied by a Waybill showing the names of
the consignor and consignee, the state and town
of origin and the point of destination.
Cotton seed—To ship cotton seed into Oklahoma, an affidavit of location where grown and
freedom from communicable disease must be
filed with the Board of Agriculture—Permits
for shipment charged at rate of 25 cents for

OREGON Law 1937

INFORMATION REQUIRED ON ANALYSIS TAGS

(A) Agricultural or turf seed. Tag each lot. Not less than 8 point type.

Commonly accepted name.
Percentage by weight of pure seed.
Percentage by weight of weed seed.
Percentage by weight of other crop seeds.
Percentage by weight of inert matter.
Name and number per pound of noxious weeds present.
Percentage of germination together with year tested.
Percentage of hard seed when present.

year tested.
Percentage of hard seed when present.
Country or state where grown.
The name and address of the vendor of such seeds. 10.

(B) Mixtures. Tag each lot.

rous weed present.

Percentage of germination of each kind present in excess of 5% by weight of the total, together with the year tested.

The name and address of vendor.

(C) Vegetable seeds.* Each separate container.**

Kind and variety of seed.

Percentage of germination together with year tested, or in lieu of this requirement the words "Oregon standard germination" may be used, when the percentage of germination is equal to or greater than the established Oregon standards. (See page 102 for standards) for standards.)

Name and number per pound of each noxious weed seed.

Name and address of person or firm who put up or packeted the seeds and labeled same.

**Beets, Mangels, Turnips, and Rutabagas are classed as agricultural seeds; hence, lots over ½ pound should be tagged as such.

**Exceptions which do not need to be tagged:

(a) Certified or registered seed.
(b) Vegetable varieties of Peas, Beans, Corn and seed of similar size in packages weighing less than 5 pounds.
(c) Other vegetable seeds in packets weighing not more than ½ pound each. That such seed is a mixture.

The name and per cent of each kind present in excess of 5% by weight of the total.

Percentage of weed seeds.

Percentage of inert matter.

Name and number per pound of each noxious weed present.

(b) Vegetable varieties of Peas, Beans, Corn and seed of similar size in packages weighing less than 5 pounds.

(c) Other vegetable seeds in packets weighing not more than ½ pound each.

NOXIOUS WEEDS—Give Name and Nowahor Pear Pound.

Number Per Pound

Group I—Prohibited.
White tops—Lepidium draba, Lepidium repens, Hymenophysa pubescens; Russian knap-

weed-Centaurea picris; leafy spurge-Eu- LABORATORY AND TESTS phorbia esula.

phorbia esula.

Group 11

Prohibited when in excess of one in 50 grams of Alfalfa, Rye Grass and other seeds approximately the same number per pound, or when in excess of one in 25 grams of Alsike, Orchard Grass or other seed of approximately the same number per pound. Dodders—Cuscuta spp.; Canada Thistle—Cirsium arvense; Johnson grass—Sorghum halepens; Quack grass—Agropyron repens.

Group 111

Prohibited when in excess of four code in

Group III

Prohibited when in excess of four seeds in 5 grams of Red Clover, Sweet Clover or Alfalfa.

Plantago lanceolata.

Buckhorn plantain-Plantago lanceolata.

Alfalfa.

Buckhorn plantain—Plantago lanceolata.

Group IV

Wild morning glory or bindweed—Convolvulus arvensis; blue lettuce—Lactuca pulchella; death weed or sumpweed—Iva axillaris; Austrian field cress—Radicula austriaca; perennial sow thistle—Sonchus arvensis; puncture vine—Tribulus terrestris; toad flax—Linaria vuigaris; alkali mallow—Sida hederacea; corn cockle — Agrostemma githago; Australian burnweed or fire weed—Erechtites prenanthodes; star thistle—Centaurea melitenses, Centaurea solst tialis, Centaurea iberica; St. Johnswort or goat weed—Hypericum perforatum; wild garlic — Allium veneale; ox-eye daisy—Chrysanthemum leucanthemum; cow cockle—Vaccaria pyramidata.

Group V—Weeds noxious only in turf seeds and lawn and turf mixtures.
Field madder — Sherardia arvensis, spotted catsear—Hypochaeris radicata; dandelions—Leontodon spp.; chickweed or big mouse ear—Cerastium vulgatum; yarrow — Achillea millefolium; rippleseed plantain — Plantago major.

millefolium; rippleseed plantain — Plantago major.

"STOP SALE." The Director of Agriculture shall seize any lot or parcel of agricultural, turf or vegetable seeds possessed, sold, offered or exposed for sale for planting purposes that appear to be in violation of any provisions of this act and to hold same until it is determined that the provisions of this act are being complied with. When any seed is found in violation of this act the Director or his assistants shall give written notice of such violation to the owner or person in possession of such seed and may set a time and method by which it may be relabeled, reconditioned or disposed of. If after receiving such notice, the seeds are not relabeled, reconditioned or disposed of within the given specified time, in accordance with the provisions of this act, the enforcing officer shall file a complaint in any justice court or court of competent jurisdiction. The seed may be condemned and destroyed or disposed of, or released upon such condition as the court may impose to insure that such seeds will not be sold, offered, or exposed for sale, in violation of this act.

SCREENINGS AND OTHER MATERIAL, removed in the cleaning or processing of

for sale, in violation of this act.

SCREENINGS AND OTHER MATERIAL, removed in the cleaning or processing of agricultural, turf and vegetable seeds containing any noxious weed seeds shall be destroyed or ground, or treated in a manner or by a method, established and approved by the director, that will destroy the viability of all noxious weed seeds therein. Screenings or other material containing noxious weed seeds may be moved under permit issued by the director or his duly designated deputies, to another place or conditioning plant for further cleaning or processing.

Seed Laboratory at Corvallis is under the Dean of Oregon State College of Agriculture, co-operating with the U. S. Department of Agri-

G. R. Hyslop, Head of Division ...
Industry.
Mrs. Louisa Kanipe, Analyst, U. S. Department of Agriculture.
Free Tests to farmers—1 Purity and 1 Germination Test per year. (Between Dec. 1 and June 30 of succeeding year.) Charges:

(b) Germination Tests:

(c) Any seed not listed will be charged the fee in the appropriate class above.

(d) Examinations and identifications.. .50

(e) Extra copies of reports will be charged for at 10 cents each.

Under the Director of the State Department of Agriculture, J. D. Mickle, Salem, Oregon. Enforcing officer, Frank McKennon, chief Bureau of Plant Industry.

License fee \$2.50 per calendar year. Secured from State Director of Agriculture.

Separate license fee is required for each branch, plant or warehouse.

Exemptions from license—

(1) Any grower selling seeds of his own pro-

(1) Any grower selling seeds of his own production exclusively.

Retailer selling only vegetable and flower seeds in packets not in excess of ½ pound which were packeted by a licensed

PENNSYLVANIA

Law of 1921

INFORMATION REQUIRED ON ANALYSIS TAGS

- (A) Agricultural Seeds. 10 pounds or more.

 - More.

 1. Commonly accepted name.
 2. Percentage of pure seed.
 3. Percentage of weed seed. (Prohibit 3%)
 4. Name and number per ounce of each noxious weed present singly or collectively in excess of:

 (a) One in 5 grams.

 (See page 106, group A.)

 (b) one in each 100 grams.

 5. Percentage of germination together with month and year tested.

 6. Where grown in case of Turkestan and Italian grown alfalfa or Italian and Chilian grown red clover.

 7. Name and address of vendor.

 Mixtures. 10 pounds or more.

(B) Mixtures. 10 pounds or more.

That such seed is a mixture. Name and percentage of each kind of agricultural seed present in excess of 5% of the mixture

3. Percentage of weed seeds (Prohibit 3%).

- Name and number per ounce of each kind of noxious weed present in excess of one seed in each 15 grams.
 Percentage of germination of each agriculture seed present in excess of 5%, together with the month and year tested.
 Where grown if Turkestan or Italian alfalfa and Italian or Chilian red clover.
 Name and address of vendor.
 Special Mixtures. 8 ounces or more.
 That such seed is a mixture.

That such seed is a mixture.

Name of each kind of agricultural seed present in excess of 5% of total mixture.

Percentage of weed seeds (Prohibit 3%).

Percentage of inert matter.

Name and number per ounce of each kind of noxious weed seed present singly or collectively in excess of one in each 15

grams.
6. Where grown if Turkestan or Italian alfalfa and Italian or Chilian red clover.
7. Name and address of vendor.
(D) Vegetable seeds defined but ex-

cluded from labeling.

Prohibits the sale, offering or exposing for sale agricultural seeds-

Ladino

CLOVER SEED

Grows from three to four times as fast and as large as ordinary white clover.

Makes an excellent pasture and will handle more stock per acre than any other crop. All seed certified, sealed and shipped under State super-

Write for Samples and Prices

JOSEPHINE GROWERS COOP. ASSN.

Largest Growers of Certified Ladino Seed in the United States

GRANTS PASS

vision.

OREGON

Lewis & Clark Seed Company

ASTORIA and SEASIDE



BENT GRASS

Growers—Shippers



OREGON CERTIFIED



Astoria

Oregon

Seedsmen-Dealers-

ATTENTION PLEASE!

It May Be

That we have the varieties and quantities of vegetable seeds you need. One thing sure we have the quality for your most critical trade.

Write Us

Tell us your needs and we will be glad to quote you.

WALTER S. SCHELL, Inc. **Quality Seeds**

Schell Building Harrisburg, Penna. Central Pennsylvania's Largest Seed Store

Wholesale Seeds

Farm Seeds **Imported Grasses** Lawn Mixtures **Hybrid Corn**



Seaboard Seed Company

Philadelphia, Penna.

- (a) Containing in excess of 3% of weed
- seeds.
 (b) Containing in excess of one or more seeds of dodder and Canada thistle to each five grams of seed.

NOXIOUS WEEDS

Wild onion or garlic—Allium species; quack grass—Agropyron repens; devil's paint brush—Hieracium aurantiacum; king devil—Hieracium species; perennial sow thistle—Sonchus arvensis; horse nettle—Solanum carolinense; bindweed—Convolvulus species. PROHIBITED IF MORE THAN 1 IN 5 GRAMS.

Dodder-Cuscuta species: Canada thistle-

Cirsium arvense.

SEED LABORATORY AND TESTS

Seed Laboratory, State Department of Agriculture, Harrisburg, Pennsylvania.

Mrs. Mary Mowry, Analyst.

Tests—Not more than five samples will be tested in any one month for any one person, firm or corporation, a fee of 25 cents must accompany the sample.

ENFORCEMENT

Department of Agriculture, Bureau of Plant Industry, Harrisburg, Pennsylvania.

RHODE ISLAND

Law of 1929

INFORMATION REQUIRED ON ANALYSIS TAGS OR CONTAINER

- (A) Agricultural Seeds. Every lot.

 - Percentage of pure seed.
 Percentage of weed seed.
 Name and number per ounce of each noxious weed seed present in excess of:

 (a) One in 5 grams.

 (See page 106, group A.)
 - (b) One in 25 grams.
 (c) One in 100 grams.
 5. Percentage of germination together with the month and year tested.
 6. Name and address of vendor.

(B) Mixtures of not more than 2 kinds.

- Mixtures of not more than 2 kinds.

 Every lot.

 1. That such seed is a mixture.

 2. Name and percentage of each kind of agricultural seed present in excess of 5% of the total mixture.

 3. Percentage of weed seeds.

 4. Name and number per ounce of each noxious weed seed present singly or collectively in excess of one seed in each 15 grams.

 5. Percentage of germination of each kind of agricultural seed present in excess of 5%, together with the month and year tested.

 6. Name and address of vendor.

(C) Special mixtures. Every lot.

- That such seed is a mixture.

 Name of each kind of agricultural seed present in proportion of 5% of the total mixture.

 Percentage of weed seeds.

 Percentage of inert matter.

 Name and number per ounce of each noxious weed seed present singly or collectively in excess of one in each 15 grams.

 Name and address of vendor.

(D) Vegetable seed. Every lot.

- Kind of seed and variety.
 Name and address of vendor or packeter.

NOXIOUS WEEDS

Quack grass—Agropyron repens; Canada thistle—Cirsium arvense; dodder—Cuscuta species; wild mustard—Brassica arvensis and other wild brassica species; crab grasses—Digitaria species; docks—Rumex species; corn cockle—Lychnis githago; buckhorn—Plantago lanceolata; wild carrot—Daucus carota carota.

carota.

Carota.

Whenever the Commissioner of Agriculture receives information that agricultural seeds are being offered or exposed for sale in violation of any requirements of this act, and is of the opinion that the interests of the public so require, he may apply to the superior court of the counties of Providence and Bristol for an injunction to restrair such violation, and thereupon such court being satisfied that such seed is for sale in violation of this act, shall issue an injunction to restrain any person. firm or corporation from selling, offering or exposing for sale such seed. "STOP SALE."

SEED LABORATORY AND TESTS

Department of Agriculture, Providence, Rhode Island. George H. Geddes.

Any citizen of Rhode Island may have 5 free tests during the year.

Fees for additional tests.

Germination-All seeds except grasses other

Germination—All seeds except grasses other than timothy 30 cents. Grasses, except timothy, 50 cents.

Purity—Cereals 50 cents, timothy and other crop seeds, except grasses, 75 cents. Grasses and mixtures of not more than two kinds \$1.00. Special mixtures, the actual cost of work, minimum \$1.25.

ENFORCEMENT

Under State Department of Agriculture and Conservation, Dr. G. W. Breed, Director. 310 State House, Providence, Rhode Island.

SOUTH CAROLINA

Law of 1949—Regulations of 1941

INFORMATION REQUIRED ON ANALYSIS TAGS OR CONTAINER.

- (A) Agricultural Seeds (Unmixed). Every lot (Sec. 2). Every lot of 10 pounds or more (Sec. 18).

 - Commonly accepted name.
 Percentage of pure seed.
 Percentage of inert matter.
 Percentage of weed seeds. Prohibited if in excess of 5%, carpet grass 10%.

 - (4) Percentage of weed seeds. Prohibited if in excess of 5%, carpet grass 10%. (Regulations.)
 (5) Percentage of other agricultural seeds.
 (6) Percentage of germination together with the month and year tested.
 (7) State where grown, when known, if in the United States.
 (8) Name and address of vendor.
 (9) Name and number of noxious weed seeds per ounce, present singly or collectively, if less than 15 per ounce. (Regulations.)
 (10) Net weight. (Weight and measure law.)
- (B) Mixed Agricultural Seeds. Every lot (Sec. 7). Every lot of 10 pounds or more (Sec. 18).

 - That such seed is a mixture.
 Name, kind of each seed entering into the mixture in excess of 5%.
 Percentage of inert matter.
 Percentage of weed seeds. Prohibit if in excess of 5%, carpet grass 10%. (Regulations.)

- (5) Percentage of other agricultural seeds.
 (6) Name and address of vendor.
 (7) Name and number of noxious weed seeds per ounce, present singly or collectively, if less than 15 per ounce. (Regulations.)
 (8) Net weight. (Weight and measure law.)
- (C) Vegetable Seeds. Every package (Sec. 9). Every parcel or package of 10 pounds or more (Sec. 18).

 - (1) Variety.
 (2) Percentage of purity
 (3) Percentage of weed seeds. Prohibit if in excess of 5%. (Regulations.)
 (4) Percentage of germination.
 (5) For seed which germinates less than the established standard. (Regulations.)
 (See standards, page 102.)
 a. Percentage of:
 1. Germination, exclusive of hard seeds.

 - seeds.

 Hard seeds.

 Month and year of test. Not more than 5 months shall elapse between the month the test is completed and the date of transportation or delivery for transportation in interstate commerce.

 The words "BELOW STANDARD" in not less than 8-point type.
- (D) Flower Seeds. Every package (Sec. 9). Every parcel or package of 10 pounds or more (Sec. 18).

Variety.
Percentage of purity.
Percentage of germination.

Prohibits the sale, offering or exposing for sale of agricultural vegetable or flower seeds if—(Regulations)

(1) Containing in excess of 5% of weeds, carpet grass 10%.
 (2) Containing 15 or more noxious weed seeds, singly or collectively, per ounce.

NOXIOUS WEEDS-Prohibit 15 or more per ounce, singly or collectively. label if less.

Wild Onion or Wild Garlic, all Dodders, Corn Cockle, Cheat or Chess, Wild Oats, Johnson Grass, Wild Mustard, Canada This-tle, Black Mustard, Sand Bur, Nut Grass.

CONFISCATION AND DISPOSITION OF SEIZED SEEDS.

Any agricultural, vegetable or flower seeds offered or exposed for sale which do not comply with the requirements of the seed act shall be seized and condemned, sold or destroyed by the Commissioner of Agriculture, Commerce, and Industry or his duly authorized representative, the proceeds from such sale shall be converted into the State Treasury. The sale shall be made at the court house door in the county in which the seizure was made, and shall be advertised for thirty days in a newspaper in the county, or if no newspaper be published in the county, then

INFORMATION REQUIRED ON

(A) Agricultural Seeds. Every lot.

ANALYSIS TAGS OR CONTAINERS.

(1) Commonly accepted name of:

(1) Commonly accepted name of:
a. Kind or,
b. Kind and variety or,
c. Kind and type.
(2) Lot number or other lot identification.
(3) Percentage of purity.
(4) Percentage of inert matter.
(5) Percentage of weed seeds.
(6) Percentage of weed seeds.
(6) Percentage of:
a. Germination, exclusive of hard seeds.
b. Hard seeds.
c. Month and year of test. Test shall have been completed within a nine month perid, exclusive of the month in which it was completed.
Following a and b "Total germination and hard seed" may be given if desired.
(8) State and county where grown, for alfalfa, red clover and field corn (except hybrid).
(9) Name and address of person who labels the seed, or who sells, offers or exposes said seed for sale.
(10) Name and number of each kind of secondary noxious weed seed, per ounce in groups B1 and B2 and per pound in B3 and B4 when present singly or collectively in excess of:
a. 1 seed in each 10 grams.
(See page 106, Group B.)
b. 1 seed in each 50 grams.
c. 1 seed in each 50 grams.
d. 1 seed in each 100 grams.

Mixed agricultural seeds. Every lot.

(B) Mixed agricultural seeds. Every lot.

(C) Vegetable seeds. Every lot.

Same as for unmixed seed, except that it must be called "Mixed" or a "Mixture" and the information required under items (A) 1, 3 and 7 shall be given for each agricultural seed present in excess of 5% in the order of its predominance.

(1) Name of kind and variety.
(2) For seed which germinates less than the minimum standard established by the State Secretary of Agriculture. (See page 102 for standards.)
a. Percentage of germination, exclusive of hard seed.
b. Percentage of hard seed.
c. Month and year test was completed. Test shall have been completed within a nine month period, exclusive of the month in which it was completed.
d. Words "BELOW MINIMUM STANDARD" in not less than 8-point type.

it shall be published in the nearest county. The advertisement shall state:
(1) Name and variety of the seed.
(2) The quantity.
(3) Why seized and offered for sale.
(4) Time and place of sale.
The Commissioner may release seed so withdrawn from sale when the requirements of this act have been complied with and upon payment of all costs or expenses incurred in such seizure and withdrawal.

SEED LABORATORY AND TESTS

Department of Agriculture, Columbia, South Carolina.

Commissioner may limit the number of free tests to residents. Fee for purity tests \$2.00, germination tests \$1.00 to non-residents.

ENFORCEMENT AND REGULATIONS

Commissioner of Agriculture, J. Roy Jones, Columbia, South Carolina.
License—Payable January 1st annually.
\$1.00—Where only boxed package vegetable or flower seed are handled.
2.50—Where gross business is less than \$200, with or without package vegetable or flower seeds.
5.00—Where gross business is over \$200 and less than \$500.
10.00—Where gross business is over \$500 and less than \$1,000.
25.00—Where gross business is \$1,000 or more.

more.

Commissioner may withdraw from sale seed not having reasonable germination or that are

extremely impure, notwithstanding they may be properly labeled, if such withdrawal is in the interest of normal crop production. Agricultural seeds shall have a germination of 75% (except legumes), if the germination is below 75% and above 49% they shall be marked "BELOW STANDARD IN GERMINATION," if the germination is less than 50% (except legumes) the seed cannot be sold.

Germination standards of crotarlaria and less fermination standards of crotarlaria and less.

than 50% (except legumes) the seed cannot be sold. Germination standards of crotarlaria and lespedeza shall be 60% calculated as "pure live seed." If below 60% and above 39% "pure live seed." If below 60% and above 39% "pure live seed" it must be labeled "BELOW STANDARD." If less than 40% "pure live seed" it cannot be sold. Germination standards for other legumes shall be 75% calculated as "pure live seed." If below 75% and above 49% "pure live seed." If below 75% and above 49% "pure live seed." If below 75% and above 49% "pure live seed." If below 75% and above 49% "pure live seed." If below 75% and above 49% "pure live seed." If cannot be sold.

I'ariety. The vendor will be held responsible for declaring the variety of all seed not clearly distinguishable from other varieties. Quantity to be labeled. All agricultural, vegetable or flower seed offered or exposed for sale, shall bear standard tag or label except seed sold across the counter from bin or container when such container carries standard label in full view.

A mixture means seed consisting of more than one kind or variety each present in excess of 5% of the whole.

Certified and registered seed must have been produced in accordance with the procedures and in compliance with the rules and regulations of an officially recognized seed certifying agency.

ing agency.

SOUTH DAKOTA

Act of 1941

NOXIOUS WEEDS

Primary noxious weed seeds

PROHIBITED IN SEED SUBJECT TO TOLERANCES
Field bindweed—Convolvulus arvensis; Leafy spurge—Euphorbia esula, and E. lucida; Perennial peppergrass—Lepidium draba; Russian knapweed Centaurea repens; Perennial sow thistle—Sonchus arvensis; Canada Thistle—Cirsium arvense; Quack grass—Agropyron repens; Horse nettle—Solanum carolinense.

Secondary noxious weeds.

Wild oats—Avena fatua; Dodders—Cuscuta spp.; Wild mustards—Brassica arvensis, B. nigra, B. juncea; Penny cress—Thlaspi arvense; Ivy leaved morning glory—Ipomea hederacea; Hedge bindweed—Convolvulus sepium; Wild carrot—Daucus carota.

vense; Ivy leaved morning glory—Ipômea hederacea; Hedge bindweed—Convolvulus sepium; Wild carrot—Daucus carota.

FARMERS are exempt from complying with provisions of this act when selling corn, wheat, oats, barley, rye flax, spelt, emmer. buckwheat, sorghum, beans and peas when grown, sold and delivered on his premises to the purchaser.

"STOP SALE" order may be issued and enforced by the State Secretary of Agriculture to the owner or custodian of any lot of agricultural or vegetable seed which he finds in violation of any of the provisions of this act. No such order shall be issued or enforced without first having given the owner or custodian an opportunity to comply with the act or withdraw the seed from sale. If the seed has been denied sale as provided in this paragraph, the owner or custodian shall have the right to appeal from such order to a court of competent jurisdiction where the seeds are found, praying for a judgment as to the jurisdiction of said order and a discharge of such seed from the order prohibiting the sale in accordance with the findings of the court.

SEIZURE. Any lot of agricultural or vegetable seed not in compliance with the provisions of this Act shall be subject to seizure on complaint of the State Secretary of Agriculture to a court of competent jurisdiction in the area in which the seed is located. If the court finds the seed to be in such violation of the Act and orders the condemnation of said seed, it shall be processed, destroyed, relabeled, or otherwise disposed of in compliance with the rules of the State Secretary of Agriculture; Provided, that in no instance shall such disposition of said seed be ordered by the court without first having given the claimant an opportunity to apply to the court for the release of said seed or permission to process or relabel it to bring it into compliance with this act.

Department of Agronomy, South Dakota.
State College of Agriculture, Brookings.
South Dakota.
E. L. Erickson—Ass't Agronomist in charge of Seed Laboratory

ENFORCEMENT AND REGULATIONS

Tests. Charges for laboratory services—
Most purity and germination

Enforcement under Commissioner of Agricul-

CERTIFIED SEED.

The Secretary of Agriculture has authority

Establish a seed certification system and make rules and regulations necessary. Designate the names of kinds, varieties and strains, and establish the grades and standards of quality allowed in seed stock which may become eligible for field registration or certification of the seed crop. Prescribe all labels, seals or certificates that shall be used in relation to seed grown, handled or offered for sale in South Dakota as "registered." "certified." "pedigreed," "elite." "foundation seed," or "inspected seed." Cooperate with managers of any seed cleaning, treating or processing plants, or individual or person within or without the state that has proper facilities and equipment to handle seed which is eligible for registration or certification.

Cooperate and assist in selection, testing and growing of seed for certification purposes, and in the arrangement for increase and distribution of improved and foundation seed stock.

To fix and establish an equitable schedule of fees and charges which shall be uniform throughout the state for the inspection and certifying of South Dakota seed, and to collect all such fees and charges.

Labeling and Representing Registered and Certified Seed.

All seed grown in South Dakota or transported into this state must have the approval and authorization of the Secretary of Agriculture before it may be offered for sale as "registered," "certified," "pedigreed," "clite," "foundation stock" or "inspected seed."

Hybrid Seed Corn

Any seed corn sold as hybrid must represent the first generation of a cross between strains of different parentage and involve lines of corn of a high degree of inbreeding or close breeding or their combinations. Such cross shall be produced by cross-fertilization controlled either by hand or by detasseling at the proper time.

Any person or firm desiring to sell hybrid seed corn is required to register with the South Dakota State Department of Agriculture, and to furnish the pedigree of such hybrid seed corn, and when called for by the Department of Agriculture, shall furnish a sample not to exceed one quart for the purpose of testing.

Prohibits the sale, offering or exposing SEED LABORATORY AND TESTS for sale, of agricultural or vegetable seed.

(3) Name and address of person who labels the seed, or who sells, offers or exposes said seed for sale.

a. Unless the test for germination has been completed within a nine month period.
 b. Containing primary noxious weeds subject to tolerances.

TENNESSEE

Act Effective July 1, 1939

INFORMATION REQUIRED ON **ANALYSIS TAGS**

(A) Agricultural Seeds. On half bushel or more.

- Commonly accepted name.
 Percentage of pure seed.
 Percentage of weed seed.
 Percentage of other crop seed.

- Fercentage of inert matter.
 Name and number per pound of noxious weed seeds which are present.
 Fercentage of germination and hard seeds together with the month and year tested.
- Where grown.
- Name and address of person or firm responsible for the information on tag, as well as consignee's name and address.

(B) Mixtures.

That such seed is a mixture.
 The kind and percentage of each kind of agricultural seed present in excess of 10% or more of the mixture, and items 3, 4, 5, 6, 7, 8 and 9; section (A),

(C) Vegetable and Flower Seed.

Mentioned only under annual \$1.00 license fee.

(D) Hybrid Corn.

Any seed of field, sweet or popcorn may not be offered as "hybrid corn" unless such seed represents the first generation of a cross between strains of different inbred parentages and involving two or more lines of corn or their combinations. Require names of originator(s) and pedigree, including name or variety or parentage of said hybrid corn, to be registered with the Commissioner of Agriculture.

NOXIOUS WEEDS

Canada Thistle Corn Cockle All Dodders*

All Dodders'
Oxeye Daisy
Quack Grass
Johnson Grass { Prohibited except in unhulled Wild Onion { crimson clover.
Commissioner of Agriculture may prescribe a maximum number of noxious weeds per pound.

* Regulation Feb. 24, 1941. Maximum dod-der in lespedeza 100 per pound.

CERTIFIED

Use of word "Certified" limited to seed certified by a certifying agency or to seed registered by the International Crop Improvement Association.

Certification tag must show:

1. Grower's name or number and address.

Name and address of certifying agency. The state, province, territory or county where grown.

LABORATORY

State Department of Agriculture, Nashville, Tenn. F. H. Spanier, Analyst.

ENFORCEMENT

- C. C. Flanery, Commissioner of Agriculture; V. L. Fuqua, Supt. and State Chemist.
- The Commissioner of Agriculture is authorized
- - (1) Prescribe the type of tag or label.
 (2) prescribe the type of stamp or other evidence of payment of the inspection
 - tee.

 (3) Fix the minimum percentages of purity and germination for agricultural seeds and mixtures.

 (4) Fix the maximum number of noxious weed seeds per pound.

 (5) Make and promulgate such rules and regulations as may be necessary for the enforcement of this act.

There shall be an inspection fee of 2 cents per bushel on the following: Red Clover, White Clover, Crimson Clover, Les, edeza. Alfalfa, Kentucky Blue Grass, Timothy, Brome Grass, Orchard Grass. Redtop, Meadow Fescue, Oat Grass, Rye Grass, Millet, Bermuda Grass, Sudan Grass; together with a \$1.00 license fee, per annum. The \$1.00 license fee shall apply to vegetable and flower seed.

TEXAS

Law of 1941

INFORMATION REQUIRED ON ANALYSIS TAGS OR CONTAINER

(A) Agriculural Seeds. (Unmixed) Every lot. Use Texas tags.

- Following a & b "Total germination & hard seed" may be given if desired.

 (8) Origin of alfalfa, red clover and field corn. If origin is unknown, it must be so stated.

 (9) Name and address of person who labeled seed, or who sells, offers or exposes seed for sale.

 10) Name and number of secondary
- for sale.

 (10) Name and number of secondary noxious weeds per ounce in groups B1 & B2 and per pound in B3 & B4 if present singly or collectively in excess of:

 a. 1 in each 5 grams.

 (See page 106, group B.)

 b. 1 in each 10 grams.

 c. 1 in each 25 grams.
 d. 1 in each 100 grams.

(B) Mixed Agricultural Seeds. Every lot. Use Texas tags.

Same as unmixed seed, except that it must be called "MIXED" or a "MIXTURE" and the information required under items, 1, 3 and 7 shall be given for each agricultural seed present in excess of 5% in the order of its predominance.

(C) Vegetable seeds. Every lot. Use Texas Tags.

(1) Name of kind and variety.
 (2) For seed which germinates less than the standard last established by the Commissioner of Agriculture. (See page 102 for standards.)

- a. Percentage of germination, exclusive of hard seed.
 b. Percentage of hard seed.
 c. Month and year of test. Test shall have been completed within a twelve month period, exclusive of the month in which the test was completed.
 d. Marked "BELOW STANDARD" in not less than 8 point type.
 (3) Name and address of person who labeled seed, or who sells, offers or exposes seed for sale.

Prohibits the sale, offering or exposing for sale of,

- A. Agricultural or vegetable seed contain ing primary noxious weeds subject to tolerances.
- Agricultural or vegetable seed unless the test for germination shall have been completed within a twelve month period, exclusive of the month in which the test was completed.

NOXIOUS WEEDS

(A) Primary Noxious Weeds.

PROHIBITS SEED CONTAINING ANY SUB-JECT TO TOLERANCES. Johnson grass—Andropogan halepensis Bindweed—Convolvulus spp. Blue Weed—Helianthus ciliaris Dodder—Cuscuta spp.

B) Secondary Noxious Weeds.

Russian thistle—Salsola kali
Wire grass—Paspalum distichum
Bermuda grass—Cynodon dactylon
Wild oats—Avena fatua
Chess or cheat—Bromus secalinus
Buckhorn plantain—Plantago lanceolata
Purple nightshade—Solanum elaeagnifolium
Darnel—Lolium temulentum
Wild mustard—Brassica sinapistrum
Curly dock—Rumex crispus

"STOP SALE" orders may be issued by the Commissioner of Agriculture for any lot of agricultural or vegetable seed which he has reason to believe is in violation of any of the provisions of this act which shall prohibit the further sale of said seed until the law has been complied with. The owner or custodian of said seed may appeal from such order to a court of competent jurisdiction where the seed is found, praying for a judgment as to the justification of said order and for the discharge from such order in accordance with the finding of the court.

SEIZURE.

Any lot of agricultural or vegetable seed not in compliance with the provisions of this act shall be subject to seizure on compliant of the Commissioner of Agriculture to a court of competent jurisdiction in the area in which the seed is located. In the event that the court finds the seeds to be in violation of the act and orders its condemnation, it shall be denatured, processed, destroyed, relabeled or otherwise disposed of in compliance with the laws of the state. In no instance shall such disposition be ordered by the court without first having given the claimant an opportunity to apply to the court for its release or permission to process or relabel it to bring it into compliance with the act.

HYBRID CORN.

The first generation seed of a cross produced by controlling the pollination, and by com-bining two, three or four inbred lines, or by combining one inbred line or a single cross with an open-pollinated variety. Hy-brid designations shall be treated as variety

SEED LABORATORY AND TESTS

State Seed Laboratory, Department of Agriculture, Austin, Texas.

Miss Wynona Robbins-Chief Analyst.

Fees for tests—Residents of Texas: Agricultural seeds free; vegetable and flower seed purity 25c, germination 25c. Out of state firms: Purity 25c, germination 25c.

ENFORCEMENT AND REGULATIONS

Enforcement is under the Department of Agriculture, Austin, Texas.

J. E. McDonald, Commissioner.
Linden E. Jones, Chief of Seed Laboratory
Division.

Certified Copy of the information required on the tag, (see (A) above) shall be filed with the Commissioner of Agriculture covering the lot of seed to be sold.

lot of seed to be sold.

Inspection tax of not over 1 cent for each 100 pounds or fraction thereof shall be paid to the Commissioner and a tag furnished by the Commissioner shall be attached to the container of the seed offered for sale.

(These tags constitute the "tested" seed labels and must bear the analysis (Sec. A).)

To ship Cotton seed—a certificate of field inspection made by county or state authorities must be filed with Seed Laboratory Division,

Department of Agriculture, Austin. If fields were inspected, the per cent must be stated on the certificate. Over 2% denied entry. Cotton, Alfalfa, Corn and Sorghum seed (either sweet or grain) must meet the requirement set forth by the Commissioner of Agriculture and shall bear a special tag issued by him. He shall have authority to refuse permission to ship such seed into Texas when the records and information of his agents show the seed to be inferior quality, lacking prescribed varietal purity or from diseased fields.

All planting seed shipped into Texas bearing labels denoting Registered or Certified seed shall have been produced under standards equal to standards in Texas for such class of seed. If not approved they may bear Registration or

Certification tags issued by the state of origin provided such tags are plainly marked—"These tags do not meet the requirements of Registration or Certification in Texas." Prohibit use of Red or Blue Tags except when used by duly qualified plant breeders or certified seed growers unless such tags are marked in bold type, "Non-Registered" or "Non-Certified" seed.

Where such terms as "from officially inspected fields," "State Inspected," "Approved Seed," "Inspected Fields," "first year from Certified Seed," "as good as Certified" and similar terms are used, such written material shall plainly show the words, "Non-Registered" or "Non-Certified."

UTAH

Revised Statutes of 1939 and Regulations

INFORMATION REQUIRED ON ANALYSIS TAG

(A) Agricultural Seed. Every lot.

- 1. Commonly accepted name.
- Lot number or designation.

- Percentage of pure seed.

 Percentage of weed seed (Prohibit over 1% by Regulation 5).

 Name and number per pound, not to exceed 90 per pound, of secondary noxious wasself.

 State Seed Laboratory.
- 6. Percentage of germination together with the month and year tested.7. Where grown.
- Name and address of vendor.

(B) Mixtures of not more than two kinds. Every lot.

- That such seed is a mixture. Lot number or designation.
- Lot number or designation.

 Name and percent of each kind of agricultural seed present in excess of 5% of the total mixture.

 Percentage of weed seeds (Prohibit over 1% by Regulation No. 5).

 Name and number per pound, not to exceed 90 per pound of secondary noxious

- weeds.
 Percentage of germination of each kind of agricultural seed in excess of 5% together with the month and year tested.
 Where grown.
 Name and address of vendor.

(C) Special mixtures. Every lot.

- That such seed is a mixture.
 Lot number or designation.
 Name of each kind of agricultural seed present in excess of 5% of the total mixture.
 Percentage of weed seeds (Prohibit over 1% by Regulation No. 5).
 Percentage of inert matter.
 Name and number per pound, not to exceed 90 per pound of secondary noxious weeds.
- Where grown,
- Where grown.
 Name and address of vendor.

(D) Vegetable seeds same as agricultural seeds. See (A) above.

Prohibit the sale, offering or exposing for sale agricultural or vegetable seeds containing

- (a) Primary noxious weeds.(b) In excess of 90 secondary noxious weed seeds per pound.(c) In excess of 1% of weed seeds.

NOXIOUS WEEDS

Primary—Prohibited.

White top, Lepidium draba; Wild Morning Glory, Convolvulus arvensis; Canada thistle, Cirsium arvense; Russian Knapweed, Centaurea pieris; Perennial Sow Thistle, Sonchus arvensis; Perennial Ragweed, Ambrosia Psilostachya; Leafy spurge, Euphorbia esula; Puncture vine, Tribulus terrestris; Night shade (Ground cherry), Physalis heterophylla; Blue flowering lettuce, Lactuca pulchella; Quack grass, Agropyron repens; Bermuda grass, Cynodon dactylon.

Secondary

Give name and number per pound if not to exceed 90 per pound; prohibited if over.

Whorled or Poison milkweed, Asclepias galioides, Burdock (great), Arctuim lappa (small), A. minus; bull thistle, Cirsium lanceolatum; Cockle bur, Xanthium orientale; Alfalfa dodder, Cuscuta spp.; Perennial ground cherry. Physalis longifolia; Poverty weed, Iva axillaris; Larkspur, Delphinium menziesii; Delphinium cuculatum; Water Hemlock, Cicuta maculata; Buckhorn Plantain, Plantogo lanceolata.

State Seed Laboratory State Seed Laboratory.
Department of Agriculture.
Salt Lake City, Utah.
Georgeanna Cameron, Analyst.
Tests—subject to rules by the State Board of
Agriculture.

REGULATIONS

- 1. Screenings must be ground or otherwise devitalized under supervision of State Board of Agriculture. Screenings of Alfalfa, Clover or Timothy or other seed of sufficient value which do not contain noxious weeds may be released by authority of State Board of Agriculture.
- Use the Rules for Seed Testing recommended by the Official Seed Analysts Assn.
- 3. Primary Noxious Weeds are prohibited in
- 4. Secondary Noxious Weeds prohibited when more than 90 per pound.
- Total of more than 1% of weed seeds pro-hibited.
- Quarantine and disposal of any seed, feed or hay containing any primary noxious weed, plant or seeds, to be made by District Agricultural Inspectors.
- 7. Seeds or Feeds Quarantined because of primary noxious weeds not permitted to be transported within or without the state. May be cleaned under supervision of an official representative of State Board of Agriculture. If found free from primary noxious weed seeds, may be released for distribution, otherwise must be destroyed.

Packet Seeds—Seeds commonly sold in small package or from bulk in small amounts may be exempt from the labeling provisions, provided the container containing such packages or seeds is labeled. The vendor's name and address must appear on each smaller container in said lot of seeds.

Original Label—The analysis label of original seller may be retained for a period not to exceed 3 months from the date of delivery.

Quarantine No. 9A

Certificate of freedom from primary noxious weeds—All agricultural and vegetable seeds, hay, straw and hay or straw products of any nature must bear a certificate of the complete absence of the seeds of all "Primary noxious weeds," issued by an authorized inspector at the point of origin, before such seeds can be entered into interstate commerce for shipment into Utah.

interstate commerce for shipment into Utah.

Carrier to hold for inspection—All agricultural and vegetable seeds, hay, straw and hay or straw products of any nature, arriving in the state from points outside, shall be held by the carrier until released by an authorized inspector of the Utah State Board of Agriculture. Any agricultural product imported in violation of this quarantine must either be returned to the point of origin or be destroyed by the owner under the supervision of an authorized inspector of the State Board of Agriculture.

GARDEN, FIELD FLOWER SEEDS

MERCHANTS OF THE SOUTHWEST have at their command large stocks of Garden, Field and Flower Seeds, centrally located for receipt of overnight shipments.

NICHOLSON'S SEEDS have set the standard of quality in the Southwest for more than 50 years. If you do not receive our wholesale list, please send us your name.

ROBERT NICHOLSON SEED CO.

DALLAS

TEXAS

We Specialize

in

CARLOADS

Alfalfa

LESPEDEZA

SOY BEANS

Cow Peas

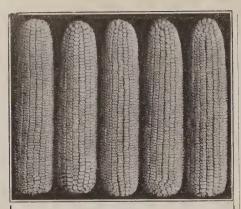
Sudan Grass

CANE SEED

SEED CORNS

RUSSELL-HECKLE SEED COMPANY

MEMPHIS, TENNESSEE



WOODS HYBRID CORNS Leading Strains for the South

We also carry a complete line of open pollinated varieties for both field and ensilage purposes.

Leading Distributors of

SERICEA AND KOBE LESPEDEZA WILT RESISTANT RAMSHORN PEAS WOOD'S YELLOW SOYBEANS ALYCE CLOVER

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Accepted by millions as standard for over 80 years



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Breaking Strength Standard Weight Full 16 Ozs. Standard Size Uniform 20x45 Standard



Due to our special bag construction, triers for sampling can be used any-where on the bag—and hole will

Manufactured by

ROYAL RIVER MILLS, Inc.

VERMONT

Law of 1926 As Reprinted 1933

INFORMATION REQUIRED ON ANALYSIS TAG

(A) Agricultural Seeds. Ten pounds or

The commonly accepted name.
 Percentage of pure seed.
 Percentage of weed seed.
 Name and number per ounce of each noxious weed present singly or collect.vely in excess

Mixtures of not more than two LABORATORY AND TESTS kinds. Ten pounds or more.

kinds. Ten pounds or more.
 That such seed is a mixture.
 Name and percentage of each kind of agricultural seed present in excess of 5% of the total mixture.
 Percentage of weed seeds.
 Name and number per ounce of each noxious weed seed present singly or collectively in excess of one seed in each 15 grams.
 Percentage of germination of each kind of agricultural seed present in excess of 5% together with the month and year tested.
 Where grown in case of imported alfalfa, red clover and orchard grass.
 Name and address of vendor.

(C) Special mixtures. Eight ounces or more.

1. That such seed is a mixture.

Name of each kind of agricultural seed present in proportion of 5% of the total mix-

Percentage of weed seeds.
Percentage of inert matter.
Name and number per ounce of each kind of noxious weed seeds present singly or collectively in excess of one seed in each 15

grams.

6. Where grown in case of imported alfalfa, red clover or orchard grass.

7. Name and address of vendor.

of:
(a) one seed in each 5 grams.
(See page 106, group A.)
(b) one seed in each 25 grams.
(c) one seed in each 100 grams.

5. Percentage of germination together with the month and year tested.
6. Where grown in case of imported red clover, alfalfa and orchard grass.
7. Name and address of vendor.

(D) Vegetable seed not included in law.

NOXIOUS WEEDS

Quack grass; wild mustard and other brassicas; Canada thistle; dodder; ergot; corn cockle; poison hemlock.

Seed Laboratory.
Agricultural Experiment Station.
Burlington, Vermont.
Mrs. Anna Lutman, Analyst.
Number of free tests and charges for additional samples to be fixed by the Director of Agricultural Experiment Station.

ENFORCEMENT AND REGULATIONS

J. L. Hills, Director of Agricultural Experiment Station at Burlington, Vermont.

License.

In January of each year each vendor must pay \$5.00 license fee for each brand of agricultural seed or mixture of agricultural seeds.

Regulation.
License fee not required on:
Mixed seed used solely or primarily for lawns
and golf courses.

VIRGINIA

Amended and Re-enacted 1938

ANFORMATION REQUIRED ON ANALYSIS TAG

(A) Agricultural seeds. Every lot of 10 pounds or more.

1. Commonly accepted name.*

Percentage of pure seed.

Percentage of weed seed. (Prohibit sale if over 3%.)

Name and number per ounce of each noxious weed present.

lous weed present.

Percentage of:

(a) Germination, exclusive of hard seeds.
(b) Hard seeds. (Regulation.)
(c) Month and year of test.

6. Name and address of vendor.

*Seed containing more than one variety or varieties, singly or collectively must be labeled as follows:

(a) If as much as 10% of another variety or varieties singly or collectively are present the word "mixed" must follow kind as "mixed soybeans" or "mixed cowpeas." The approximate percentage of each variety may be given.

(b) Seed containing as few as 5% or less than 10% of another variety or varieties singly or collectively must be labeled as to kind only as "soybeans" or "cowpeas."

(c) Seed containing less than 5% of another variety or varieties singly or collectively may be labeled as a single variety.

Mixtures Every lot

(B) Mixtures. Every lot.

1. That such seed is a mixture.

2. (a) Name of each kind of agricultural seed present in excess of 5% of the total mixture.

(b) Mixtures containing two kinds only, of agricultural seeds, must also be labeled with the percentage of each.

(c) If agricultural seeds present in quantities less than 5% of the total are named on label the percentage of each must be given.

3. Percentage of weeds. (Prohibit sale if over 3%.)

Percentage of inert matter.
 Name and number per ounce of each kind of noxious weed present.
 For each kind of agricultural seed present in excess of 5% give:

 (a) Percentage of germination, exclusive of hard seeds.
 (b) Percentage of hard seeds.
 (c) Month and year of test.

 Name and address of vendor.

Vegetable Seed. Every separate con-

Kind of seed and variety.
 Year for which packeted, words "packed for" shall precede the year.
 Percentage of germination, together with the month and year tested, provided the germination is less than the Virginia standards. (See page 102.)
 Name and address of person or firm who packed the seeds and labeled the same.

NOXIOUS WEEDS

Wild onion—Allium vineale; Bermuda grass—Cynodon dactylon; quack grass — Agropyron repens; Canada thistle—Cirsium arvense; hawkweed—Hieracium species; dodder—Cuscuta species (prohibited if 12 or more to one ounce of seed); Johnson grass—Sorghum halepense (prohibited if one to two ounces of seed).

hibited if one to two ounces of seed).

SEIZURE OF SEED.

The Commissioner of Agriculture and Immigration may cause to be seized and held any lot of agricultural seeds or mixtures of same, found to violate any of the provisions of this act until the law has been complied with or said violation otherwise legally disposed of; provided, however, that such person, firm or corporation shall have the right immediately to apply to the circuit court of the city or county in which seizure is made, for release of the same from seizure

SEED LABORATORY AND TESTS

1112 State Office Building, Richmond, Vir-

ginia.
In charge of G. T. French, State Entomologist and chief botanist.
The Commissioner of Agriculture may fix the maximum number of samples tested free of charge for any one period of time for any individual firm or corporation.

ENFORCEMENT AND REGULATIONS

Enforcement—Commissioner of Agriculture.
Regulations—Hard seeds shall not be included in
the percentage of germination but may be
shown on the analysis tag in the following
manner:

Germi Hard											
Total										-	.95%

Broken sprouts—seedings of crimson clover and other legumes having both cotyledons broken

off or a broken hypocotyl shall not be counted on or a proken hypotolyl shall not be counted as germinated.

Local vendor may use the wholesaler's tag for only 90 days from date of delivery.

Bermuda grass may be sold as an agricultural seed when so marked. When present in other kinds of seeds is a noxious weed.

WASHINGTON

Law As Amended to 1941

INFORMATION REQUIRED ON ANALYSIS TAG OR CONTAINER

Agricultural Seeds (Unmixed) Every

1. Commonly accepted name of

Commonly accepted name of

(a) Kind or

(b) Kind and variety or

(c) Kind and type.

Lot number or other lot identification.

Percentage of purity.

Percentage of inert matter.

Percentage of weeds.

Percentage of other agricultural seeds.

Percentage of

(a) Germination, exclusive of hard seed.

(b) Hard seed.

(a) Germination, exclusive
(b) Hard seed.
(c) Month and year of test. Test shall have been completed within a nine month period exclusive of the month in which manner.

been completed within a nine month period exclusive of the month in which test was made.

Following (a) and (b) "Total germination and hard seed" may be given if desired.

Origin of alfalfa, red clover and field corn (except hybrid). If origin is unknown it must be so stated.

Name and address of person who labeled seed, or who sells, offers or exposes said seed for sale.

Name and number of each secondary noxious weed per pound when present singly or collectively in excess of

(a) One seed or bulblet in each 10 grams of Agrostis spp., Poa spp., Bermuda grass, timothy, orchard grass, fescue (except meadow), alsike and white clover, reed canary grass and other agricultural seeds of similar size and weight or mixtures within this group.

(b) One seed or bulblet in each 25 grams of ryegrass, meadow fescue, millet, alfalfa, red clover, sweet clover, lespedeza, smooth brome grass, crimson clover. Brassica spp., flax, Agropyron spp., and other agricultural seeds of similar size and weight, or mixtures within this group, or of this group with (a).

(c) One seed or bulblet in each 100 grams of wheat, oats, rye, barley, buckwheat, sorghums, vetches, and other agricultural seeds of a size and weight similar to or greater than those within this group or any mixtures within this group.

(B) Mixed Agricultural Seeds. Every lot.

Same as for unmixed seed except that it must be called "Mixed" or a "Mixture" and the information required under items (A) 1, 3 and 7 shall be given for each agricultural seed present in excess of 5% in the order of its pre-

(C) Vegetable Seeds. Every lot.

INFORMATION REQUIRED ON

ANALYSIS TAG OR CONTAINER

(A) Agricultural Seeds. Every lot.

Name of kind and variety.

For seeds which germinate less than the standard last established by the Director of Agriculture. (See page 102 for standards.)

(a) Percentage of germination, exclusive of hard seed.

(b) Percentage of hard seed.

(c) Month and year of test. Test shall have been completed within a nine month

(1) Commonly accepted name of: (Regula-

tion).
(a) Kind,
(b) Variety, or
(c) Type.
(2) Percentage of pure seed.
(3) Percentage of weed seed (prohibit 3%).
(4) Percentage of other agricultural seeds.
(Regulation.)
(5) Percentage of: (Regulation.)
(a) Germination, exclusive of hard seeds.

period exclusive of the month in which it was completed.

(d) The words "BELOW STANDARD." Name and number per pound of secondary noxious weeds.

Name and address of the person who labeled seed, or who sells, offers or exposes said seed for sale.

Prohibits the sale, offering or exposing for sale of agricultural and vegetable

Unless the test for germination shall have been completed within a 9-months period, exclusive of the month in which the test was completed.

Containing primary noxious weeds subject to tolerances prescribed in the rules and regulations.

NOXIOUS WEEDS

1. Primary noxious weeds. Prohibits seed containing any subject to tolerances.

Quack grass—Agropyron repens; Canada thistle—Cirsium arvense; Bindweed—Convolvulus arvenisis and C. sepium; Perennial sow thistle—Sonchus arvensis; Hoary cress or White top—Lepidium draba. L. repens and Hymenophysa pubescens: Yellow toadlax—Linaria vulgaris; Russian knapweed—Centaurea picris; Blue flowering lettuce—Lactuca pulchella: Leafv spurge—Euphorbia esula; Camelthorn—Alhagi pseudalhagi; Austrian field cress—Radicula austriaca; Perennial peppergrass—Lepidum latifolium.

2. Secondary noxious weeds.

Alkali mallow—Sida hederacea; Corn cockle—Agrostemma githago; Docks—Rumex spp.: St. Johnswort—Hypericum perforatum; Dodder—Cuscuta spp.; Fanweed—Thlaspi arvense; Poverty weed—Iva axillaris; Wild mustard—Brassica species; Plantain—Plantain species: Perennial ground cherry—Physalis subglabrata.

STOP SALE" orders for any lot of agricultural or

Physalis subglabrata.

"STOP SALE" orders for any lot of agricultural or vegetable seeds may be issued and enforced by the Director of Agriculture if he finds or has reason to suspect the seed is in violation of any of the provisions of this act, prohibiting further sale of said seed until he has evidence that the law has been complied with. No "Stop Sale" order shall be issued or attached without first giving the owner or custodian an opportunity to comply with the law or to withdraw the seed from sale. The owner or custodian shall have the right to appeal from such order to a court of competent jurisdiction, praying for a judgment as to the justification of said order and for the discharge of said seed from the order in accordance with the findings of the court.

set any lot of agricultural or vegetable seed not in compliance with the provisions of the seed law shall be subject to seizure on complaint of the Director of Agriculture to a court of competent jurisdiction in the area in which the seed is located. If the court finds it in such violation and orders the condemnation of said seed it shall be denatured, processed, destroyed, relabeled or otherwise disposed of in compliance with the laws of the state. No such disposition of said seed shall be ordered without

first having given the claimant an opportunity to apply to the court for the release of said seed or permission to process or relabel it to bring it into compliance with the act.

bring it into compliance with the act.

SCREENINGS. Any screenings or other material removed in the cleaning of agricultural, turf or vegetable seeds containing "Noxious weed" seeds are declared to be a menace to agriculture, and by agreement with the owner may be destroyed. Said screenings may be ground or treated in a manner approved by the Director of Agriculture that will destroy the viability of the seed before it can be used for feeding purposes. Any screenings not ground or treated may be removed from the cleaning establishment only under permit issued by the Director of Agriculture and shall be labeled "SCREENINGS CONTAINING NOXIOUS WEEDS. UNFIT FOR PLANTING OR FEEDING PURPOSES IN WASHINGTON."

SEED LABORATORY AND TESTS

Seed Laboratory, Dept. of Agronomy, State College of Washington, Pullman, Washington, E. G. Schafer in charge. Dwight D. Forsyth, see analyst, State Dept. of Agriculture, Olympia, Wash. Tests. One free test (purity and germination) will be made per year for any person residing in the state. Additional tests will be charged as follows:

FOR PURITY

(1) Peas, beans, vetches, cereals, beets, mustards, cabbage, melons, parsnips and carrots \$0.50 (2) Alfalfa, clovers, wheatgrasses, ryegrasses and timothy \$1.00 (3) Bentgrasses, bluegrasses, orchard grass, fine fescues \$2.00 (4) Seed mixtures containing two species.

FOR GERMINATION TESTS

ENFORCEMENT AND REGULATIONS

Director of Agriculture, Walter J. Robinson, Olympia, Washington. Charles D. Gaines, State Seed Inspector.

An annual license, fee \$10.00, must be obtained from the Director of Agriculture for each separate place of business. License expires Dec. 31st of each year.

Merchants selling only seeds in sealed packages of 8 ounces or less are exempt from license fee provided seed packages bear name and address of packetor who is licensed.

WEST VIRGINIA

Law 1937 Regulations of 1941

(b) Hard seeds. (c) Month and year of test.

Following a & b "Total" may be shown if (6) Origin of red clover, alsike clover and

alfalfa.

(7) Name and address of vendor.
(8) Name and number per ounce of each kind of noxious weed seeds present in excess of:

(a) One in each 5 grams. (See page 106, group A.)

(h) One in each 25 grams.

(c) One in each 100 grams.

(B) Mixtures (All mixtures — Regulations). Every lot.

(1) That such seed is a mixture.
 (2) Name and percentage of each kind of agricultural seed present in excess of 5% of the total mixture.
 (3) Percentage of weed seeds (prohibit 3%).
 (4) For each kind of agricultural seed mentioned in (2) give percentage of:

 (a) Germination, exclusive of hard seeds.
 (b) Hard seeds.
 (c) Month and year of test.

Following a & b "Total" may be given if desired.

(5) Origin of red clover, alsike clover and alfalfa, (Regulation.)

(6) Name and address of vendor.
 (7) Name and number per ounce of each kind of noxious weed seed present.

C) Vegetable seeds included in agricultural seed. Label as under (A).

(See page 102 for germination standards.)

Prohibits the sale, offering or exposing for sale of agricultural seed:

(1) Containing quack grass, Canada thistle, dodder and perennial sow thistle if present in excess of one seed in five grams.
(2) Containing in excess of 3% of weed seeds.

seeds.

NOXIOUS WEEDS

Wild onion—Allium vineale; Johnson grass—Sorghum halepense; hawk weed—Hieracium species; buckhorn—Plantago lanceolata; English charlock or wild mustard—Brassica arvensis; corn cockle—Agrostemma githago; ox-eye daisy—Chrysanthemum leucanthemum; Indian mustard—Brassica juncea; star thistle—Centaurea solstitialis; wild carrot—Daucus carota; galinsoga—Galinsoga parviflora.

tle—Carduus arvensis; dodder—Cuscuta species; sow thistle—Sonchus species.

SEED LABORATORY

Department of Agriculture, Charleston, West Virginia. Marvin H. Snyder, Seed Analyst.

TESTS

No charge will be made for the first ten tests for any farmer, dealer, person or firm. All in excess of 10, the following charges shall be made. Purity, 50c for red, white and mammoth clovers, alsike, wheat, alfalfa, timothy, corn, soybeans, rye, buckwheat, oats, flax, kaffir corn, millet, sorghum, field peas and vetch. Purity, \$1.00 for red top, Kentucky and Canada blue grass, fescues, roughstalk meadowgrass. Purity, \$2.00 for lawn grass mixtures and complex field seed mixtures. All germination tests, 25c each.

ENFORCEMENT AND REGULATIONS

Department of Agriculture.
J. B. McLaughlin, Commissioner.
Certificates of Registration must be obtained from the Commissioner of Agriculture for each kind of agricultural or vegetable seed offered for sale. Application for certificate must be accompanied by fee of \$5.00 for each kind and a certified copy of the complete information required on the analysis tag.

Certificates are void on June 30th, next—succeeding the issuance thereof.
Registration may be refused or cancelled (1) if the application does not contain the complete information required; (2) if vegetable seeds do not meet the minimum requirements of germination. (See page 118 for germination standards), (3) If agricultural seed or mixtures contain quack grass, Canada thistle, dodder species or perennial sow thistle in excess of five per ounce. (4) If such seeds or mixtures contain more than 3% by weight of weed seeds. (5) If seeds found on the market are improperly labeled or do not meet the guarantee of the seeds found on the market are improperly labeled or do not meet the guarantee of the seedsman. (6) If it is found by the Department laboratory that the labels do not show the correct purity germination and noxious weed seed content. (7) Any seed registered in violation of the law or rules and regulations.

CERTIFIED SEED. Seed that has been produced and labeled in accordance with the procedures and in compliance with the rules and regulations of an officially recognized seed-certifying agency.

HYBRID SEED CORN. The first generation seed of a cross produced by controlling the pollination, and by combining two, three or four inbred lines, or by combining one inbred line or a single cross with an openpollinated variety. Hybrid designations shall be treated as variety names.

WISCONSIN

Law and Regulations of 1941

Name and address of the person who labeled the seed, or who sells, offers or exposes said seed for sale.

(A) Agricultural Seeds (Unmixed). Every Prohibits the sale, offering or exposing for sale of-

A Agricultural seeds containing primary noxious weeds subject to tolerances.

(B) Agricultural seeds containing secondary noxious weeds, singly or collectively, in excess of:

1 seed in 5 grams of the agricultural seeds listed in A-10-a.

1 seed in 10 grams of the agricultural seeds listed in A-10-b.

1 seed in 10 grams of the agricultural seeds listed in A-10-b.

1 seed in 10 grams of the agricultural seeds listed in A-10-c.

1 seed in 50 grams of the agricultural seeds listed in A-10-c.

(C) Any agricultural seed containing in excess of 5% of weed seeds, except ragweed (Ambrosia elatior) and foxtail (Chaetochle spp.), which may be present either singly or collectively at a rate not to exceed 10%, if the total weed seed content does not exceed 10%.

(D) Any agricultural or vegetable seed unless the test for germination shall have been completed within a 12 month period, exclusive of the month in which the test was completed.

(E) Any alfalfa seed represented to be Grimm, Cossack or Ladak variety and any field seed corn represented to be hybrid, unless such seed is certified as to variety by a seed certifying agency which is approved by the department as satisfactory for the performance of seed certification and the official tag of such agency is properly attached to each container.

NOXIOUS WEEDS

(A) Primary Noxious Weeds.

PROHIBIT SEED CONTAINING ANY SUB-IECT TO TOLERANCES.
Field bindweed—Convolvulus arvensis; Leafy spurge—Euphorbia esula; Canada thistle— Cirsium arvense; Quack grass—Agropyron

1. The Wisco

(B) Secondary Noxious Weeds.

Dodders—Cuscuta spp.; Wild mustard—Brassica arvensis; Indiana mustard—Brassica juncea; Buckhorn—Plantago lanceolata; Oxeye daisy—Chrvsanthemum leucanthemum; Perennial sow thistle—Sonchus arvensis.

"STOP SALE"

Whenever the department or any of its duly qualified inspectors shall find in any warehouse, store, freight depot, car, truck or place of business, a lot of seed which appears to be offered for sale in violation of the seed laws of this state or regulations promulgated by this department, the inspector shall obtain fair and representative samples of such seed, mark the same for identification, and forward the same to the department for analysis. At the time of obtaining the samples, the inspector shall notify the owner or custodian of such seed in writing that the sale thereof appears to be in violation of law. The lot of seed shall not thereafter be sold or removed from the premises with

out permission or release by the department. The department shall cause an analysis to be made of such seed and report its findings to the owner or custodian of the seed. The analysis and report shall be made within 15 days of the date of taking the sample. If it shall appear, from the official laboratory examination of any lot of seed, that it does not meet the requirements of the statute or is not labeled in accordance with the provisions of the seed law of the state or regulations promulgated by the department, the vendor of such seed shall be notified and be given an opportunity for a hearing under the rules and regulations of the department.

SEED LABORATORY AND TESTS

State Seed Laboratory, Agronomy Building. Madison, Wisconsin. Henry Lunz, Analyst in charge. Fees for testing seed—25 cents, except mixtures which shall be 25 cents for each component present in excess of 5%.

ENFORCEMENT

Department of Agriculture and Markets, Ralph E. Ammon, Director, State Capitol, Madison, Wisconsin. Seed and Weed Control Section, Henry

Lunz.

Permit.

No person shall sell, offer or expose for sale in Wisconsin any agricultural or vegetable seeds without securing a permit from the Department of Agriculture, a separate permit is required for each place of business, fee \$1.00.

Permit not required for:

a. Persons selling offering or exposing for sale, seed of their own production, provided it is sold and delivered to the purchaser only on the farm or premises where grown.

b. Persons selling seed which has been packaged and distributed by seedsman having permit.

ATIONS

The Wisconsin Agricultural Experiment Association is approved as the agency satisfactory for the performance of seed certification in Wisconsin. In other states and in Canada the department approves that agency officially recognized by the department of agriculture of that state or province as satisfactory for the performance of seed certification.

White Blossom Sweet Clover seed containing 5% or more of mottled seed shall not be labeled as White Blossom Sweet Clover seed but shall be labeled Sweet Clover seed.

Seed containing hard seed shall be la-

Clover seed.
Seed containing hard seed shall be labeled by one of the following methods:
a. Germination ...% including ...% hard seed.
b. Germination including hard

PROHIBITED WHEN IN EXCESS OF ONE IN 5 GRAMS:
Quack grass—Agropyron repens; Canada this-

INFORMATION REQUIRED ON ANALYSIS TAG OR CONTAINER

(1) Commonly accepted name or kind, va-

Commonly accepted name or kind, variety or type.
Lot or identification number.
Percentage of purity.
Percentage of inert matter.
Percentage of seed seeds. Prohibits, if in excess of 5%, except ragweed and foxtail which may be present up to 10%, including other weeds, singly or collectively.
Percentage of other agricultural seed.
Percentage of:

foxtail which may be present up to 10%, including other weeds, singly or collectively.

Percentage of other agricultural seed.
Percentage of:

a. Germination, including hard seeds.
b. Hard seeds.
c. Month and year of test. Test shall have been completed within a twelve month period, exclusive of the month in which it was completed.

Origin of alfalfa, seed grains and corn. Name and address of the person who labeled the seed, or who sells, offers or exposes said seed for sale.

Name and number per ounce of each kind of secondary noxious weed seeds present singly or collectively in excess of:

a. 1 in each 25 grams of redtop, Canada blue grass, Kentucky blue grass and seeds of similar size and weight, or smaller, and mixtures of such seeds.
b. 1 in each 50 grams of timothy, or chard grass, reed canary grass, smooth brome grass, alsike, white and red clovers, rape, alfalfa, sweet clover, rye grasses, millets, flax and seeds of similar size and weight, and mixtures of such seeds.
c. 1 in each 150 grams of sudan, proso, and seeds of similar size and weight, and mixtures of such seeds.
d. 1 in each 300 grams of sorghums, buckwheat and seeds of similar size and weight, and mixtures of such seeds.
e. 1 in each 500 grams of vetches, cereals, field corn, beans, field and can

seeds.

1 in each 500 grams of vetches, cereals, field corn, beans, field and canning peas, cowpeas and seeds of similar size and weight and mixtures of such seeds.

(B) Mixed Agricultural Seeds. Every lot.

Same as for unmixed agricultural seed, except that it must be called "Mixed" or a "Mixture," and the information required under items (A) 1, 3 and 7 shall be given for each agricultural seed present in excess of 5%.

(C) Vegetable seeds. Every lot.

Name of kind and variety.
 For seed which germinates less than the standard last established by the depart-ment. (See page 102 for standards.)

Percentage of germination.
Month and year of test. Test shall have been completed within a twelve month period, exclusive of the month in which it was completed.
Marked "BELOW STANDARD" in not less than 8-point type.

WYOMING

Law of 1941

INFORMATION REQUIRED ON ANALYSIS TAG OR CONTAINER.

- more.

 - (1) Commonly accepted name of:
 a. Kind and variety or,
 b. Kind and type.
 (2) Lot number or other lot identification.
 (3) Percentage of pure seed.
 (4) Percentage of inert matter.
 (5) Percentage of common weed seeds.
 (6) Percentage of other agricultural seeds.
 (7) Percentage of:
 a. Germination.
 b. Hard seeds.
 c. Month and year of test.
 (8) Origin of seed.
 (9) Full name and address of person, firm or corporation selling, offering, exposing or transporting seeds for sale.
- (B) Mixed Agricultural Seeds. Five pounds or more.

Same as for unmixed agricultural seeds, except that the requirements under items (A)

1, 3 and 7 shall be given for each kind or variety present in excess of 5%.

(A) Agricultural Seeds. Five pounds or (C) Vegetable Seeds. Five pounds or over. Label as agricultural seeds. (A)

Prohibits the sale, offering or exposing for sale or distribution of-

Agricultural or vegetable seed containing any of the seeds of the named perennial noxious weed seeds.

NOXIOUS WEEDS

Cocoa grass—Cyperus rotundus; horse nettle
—Solanium carolinense; Austrian field cress
—Roripa austriaca; camel thorn—Alhagi camelorum; Canada thistle—Cirsium arvense;
field bindweed—Convolvulus arvensis; leafy
spurge—Euphorbia esula; perennial ragweed
—Ambrosia psilostachya; perennial sow thistle—Sonchus arvensis; quack grass—Agropyron repens; Russian knapweed—Centaurea
repens; St. John's wort—Hypericum perfo-

ratum; whitetop — Lepidium repens and draba; flowering spurge—Euphorbia corollata; ox-eye daisy — Chrysanthemum leucantheox-eye daisy — Chrysantnemum leucanthemum; spreading dogbane—Apocynum androsaemifolium; yellow cress—Roripa sylvestris; White leaved Franseria—Franseria discolor; Austrian peaweed—Swainsona salsula; lanceleaved sage, Salvia lanceolata.

"STOP SALE" any agricultural or vegetable seeds containing noxious weed seeds shall be removed from sale and impounded by the Commissioner of Agriculture, his duly authorized seed inspectors or agents and shall be released only upon the following conditions.

- tions:
 a. Complete destruction.
 b. Removal outside the boundaries of the state. Recleaned so that no noxious perennial
- weed seeds are present.
- SCREENINGS of any seeds or grains offered or exposed for sale shall be labeled as such and not sold as seed. They shall be free of noxious, perennial weed seeds. Screenings found to contain noxious weed seeds shall be subject to seizure and destruction by the Commissioner of Agriculture, his duly authorized agents or inspectors.

FEDERAL SEED ACT—INTERSTATE COMMERCE

August 1939

INFORMATION REQUIRED ON ANALYSIS TAG OR CONTAINER

- (A) Agricultural seeds (unmixed) Every lot, effective February 1940
- Name of:

 (a) Kind or

 (b) Kind and variety or

 (c) Kind and type.

 Lot number or other identification.

 Percentage of pure seed.

 Percentage of other crop seed.

- Percentage of inert matter.
 Percentage of weed seeds.
 Name of noxious weed seed and rate of occurrence expressed in accordance with and not to exceed the rate allowed by the law and regulations of the State into which the seed is transported. seed is transported

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HEADQUARTERS

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CLOVERS



GRASSES



FORAGES



RUDY-PATRICK SEED CO.

KANSAS CITY, MO.

- Percentage of germination exclusive of hard
- Percentage of hard seeds if present.
- 10. Calendar month and year germination test was completed. No more than 5 calendar months shall have elapsed between the last day of the month in which the germination test was completed and the date of trans-portation or delivery for transportation in interstate commerce. (Regulation.)
- interstate commerce. (Regulation.)

 11. Origin of alfalfa, red clover and fie'd corn except hybrid corn; if unknown, that fact shall be stated. Whenever such seed originates in more than one State, the name of each State and the percentage of seed originating in each State shall be given in the order of its predominance. (Regulation.)
- Name and address of person transporting the seed in interstate commerce or the name of person to whom the seed is shipped together with the code designation of the shipper.

(B) Mixtures

As unmixed except that the information required under items 1, 3, 8, 9, 10 and 11 shall be given for each agricultural seed component present in excess of 5% of the whole.

(C) Vegetable seeds - Effective August, 1940

- Name of kind and variety.
- Name and address of person who transports the seed in interstate commerce or the person to whom the seed is shipped, together with the code designation of the shipper. For seed which germinates less than the Standard established by the Secretary of Agriculture:
- Percentage of germination exclusive of hard seed.
- 4. Percentage of hard seed, if present.
- Percentage of hard seed, if present. Calendar month and year the test was completed. No more than 5 calendar months shall have elapsed between the last day of the month in which the germination test was completed and the date of transportation or delivery for transportation in interstate commerce. (Regulations.)
- 6. The words "Below Standard" in 8 point type

CERTIFIED OR REGISTERED SEED.—The UNIT WEIGHTS FOR USE IN

CERTIFIED OR REGISTERED SEED.—The terms "certified seed" and "registered seed" mean seed that has been produced in accordance with the procedures and in compliance with the rules and regulations of an officially recognized seed-certifying agency.

HYBRID SEED CORN.—The term "Hybrid seed corn" means the first-generation seed of a cross produced by controlling the pollination, and by combining two, three, or four inbred lines, or by combining on inbred line or a single cross with an open-pollinated variety. Hybrid designations shall be treated as variety names.

names.

RECORDS.—Each person handling agricultural seed subject to the act shall keep for a period of 3 years a complete record of each lot of agricultural seed handled, except that any seed sample may be discarded 1 year after the entire lot represented by such sample has been disposed of by such person. been disposed of by such person.

SCREENINGS.—Screenings of any seed subject to this Act, unless they are not intended for seeding purposes; and it is stated on the label, if in containers, or on the invoice if in bulk, that they are intended for cleaning, processing the seeding purposes. essing, or manufacturing purposes, and not for seeding purposes, shall not be shipped in inter-state commerce. The term "screenings" means

chaff, sterile florets, immature seed, weed seed. inert matter, and any other materials removed in any way from any seeds in any kind of cleaning or processing and which contains less than 25% of live agricultural or vegetable

AGRICULTURAL MARKETING SERVICE ANNOUNCEMENTS:

Aug. 24, 1940-The use of "Affidavit Grimm Alfalia" phrase is prohibited. The word "affidavit" is not a part of the name of the kind, type or variety which is required to be stated on the label.

stated on the label.

Sept. 23, 1940—Labeling Sweet Clover: If there is any uncertainty as to the proportion of sweet clover that is white blossom, the seed should be labeled as to kind only; namely, sweet clover. It is suggested that shippers of domestic sweet clover seed in interstate commerce will be adequately protected if they assume that yellow blossom sweet clover is present in the seed in a quantity four times the quantity of mottled seeds present. For example, if a sample of sweet clover contains 1.3% of mottled seed, it should be considered to contain 5.2% yellow blossom sweet clover. The seed, therefore, should be labeled as sweet clover or in such a manner as to show that it is a mixture consisting of white blossom and yellow blossom sweet clover and the percentage of each. Yellow blossom sweet clover is considered "other crop seed" when present in seed labeled "white blossom sweet clover."

Aug. 6, 1941—The importation of mixtures, in

labeled "white blossom sweet clover."

Aug. 6, 1941—The importation of mixtures, in any combination, of seed of suckling clover (Trifolium dubium), white clover (Trifolium repens), or cluster clover (Trifolium glomeratum), for planting is not detrimental to the use of such seeds.

Sept. 1940—Service tests on seeds in the Washington laboratory of the Agricultural Marketing Service has been discontinued because of the amount of routine testing and other activities required in the administration of the Federal Seed Act. The extent of service testing in the Federal-State seed laboratories is to be determined by the officials of the states in which the laboratories are located.

INTERSTATE COMMERCE

		Unit
	W	eight for
	1	Voxious
Weights	for	Weed
Weights PURITY	TEST Dete	ermination
1 gram	Agrostis spp., Poa spp.,	
	Rhodes grass, Bermada	
	grass	25 grams
2 grams	Timothy, orchard grass,	
- 8.4	fescues (except meadow	
	fescue) alsike and white	
	clover, carrot, reed canary	
	grass, Dallis grass	50 grams
5 grams	Rye grass, meadow fescue,	
	foxtail millet, alfalfa, red	
	clover, sweet clover, les-	
	pedeza	50 granic
10		JO granis
10 grams	Smooth brome, crimson	
	clover, Brassica spp., flax,	
	Agropyron spp	50 grams
25 grams	Proso, Sudan grass	150 grams
50 grams	Sorghums, buckwheat, beet	300 grams
	Vetches, cereals (except	
	corn)	500 grams
500 grams	Corn, beans, peas, cow-	
ooo grams		500 ~~~
	peas, soybeans	500 grams

DISTRICT OF COLUMBIA

Federal Seed Act—Interstate Commerce 1939

INFORMATION REQUIRED ON ANALYSIS TAG.

(A) Agricultural seeds (unmixed). Every lot.

Same requirements as under the Federal Seed NOXIOUS WEEDS. Noxious weeds.

Give name and number per ounce.

Bermuda grass—Cyr Bindweed—Convolve Same requirements

(B) Mixtures of Agricultural Seeds. Every

Same requirements as under the Federal Seed Act except for labeling: Noxious weeds. Give name and number per ounce.

(C) Vegetable Seeds. Every lot.

Same requirements as under the Federal Seed Act.

Bermuda grass—Cynodon dactylon Bindweed—Convolvulus arvensis Canada thistle—Cirsium arvense Quack grass—Agropyron repens Wild onion—Allium vineale

Vegetables at a Glance

A digest of the leading varieties for commercial and home use

BEANS

			Pod		
Variety	Season	Plant	Shape	Color	Seed Color
Asgrow Stringless }	Early	Bush, large	Straight, round	Med. green	Mottled purple
Black Valentine \\ Stringless	Early	Bush, large	Straight, oval	Deep green	Black
Blue Lake	Mid	Pole, large	Round, straight	Med. green	Ivory white
Bountiful	Early	Bush, medium	Straight, flat	Light green	Straw
Burpee's Stringless	Early	Bush, medium	Curved, round	Med. green	Coffee-brown Mottled buff
Cornfield Decatur	Late Early	Pole, large Pole, large	Straight, round Near straight	Med. green Bright green	Ivory white
French's Hort.	Late	Bush, medium	Straight, broad	Green and	Ivory winte
riench's more.	Late	Dusii, incuium	Straight, broad	carmine	Mottled red
Full Measure	Early	Bush, large	Straight, round	Med. dark	motified red
				green	Mottled brown
Giant Stringless	Early	Bush, medium	Sl. curved, round	Med. green	Yellowish brown
Golden Wax	Early	Bush, medium	Straight, oval	Waxy yellow	Mottled white
Ideal Market	Early	Pole, medium	Curved, round	Silv'ry green	Black
Kentucky Wonder	Mid	Pole, large	Curved, round	Med. green	Buff
Kidney Wax	Mid	Bush, medium	Curved, oval	Med. yellow	White, black eye
Lazy Wife	Late	Pole, medium	Clusters, oval	Med. green	White
London Hort.	Late	Pole, large	Curved, thick	Dark green splashed	Mottled Red
McCaslan	Mid	Pole, large	Curved, thick flat	Med. green	Ivory
Pencil Pod	2nd Early	Bush, medium	Curved, tillex hat	Med. yellow	Black
Plentiful	Early	Bush, medium	Straight, flat	Light green	Black
Rd. Pod Kid. Wax	Mid	Bush, large	Sl. curved, round	Med, yellow	White, black eye
Red Valentine	2nd Early	Bush, medium	Curved, round	Med. green	Mottled buff
Refugee Stringless	Late	Bush, large	Straight, round	Light green	Mottled purple
Sure Crop	2nd Early	Bush, large	Straight, thick	Deep yellow	Black
Tenn. Green Pod	Early	Bush, medium	Very large, stringy	Dark green	Med. brown
Webber Wax	Early	Bush, dwarf	Straight, flat	Bright yellow	Yellowish buff
Wht. Creaseback	Mid	Pole, medium	Sl. curved, round	Med. green	Ivory

GARDEN CORN

			E	ars			
Variety	Season	Color	Length Inches	Rows	Туре	Stalk in Feet	
Adams Extra Early	Early	White	6	12-14	Roasting	5	
Alameda	Main	White	7	12-16	Sweet	5 5 7	
Bantam Evergreen	Late	Yellow	8	14-18	Sweet	7	
Black Mexican	Main	White	8	8	V. sweet	7	
Charlevoix	Main	Yellow	61/2	10-12	Sweet	51/2	
Country Gentleman	Late	White	71/2	Zig-zag	Sweet	7	
Early Evergreen	Late	White	71/2	16-20	Sweet	7	
Early Market	Early	White	6	10-12	Sweet	41/2	
Golden Bantam	Main	Yellow	6	8	Sweet	5	
Golden Bantam Improved	Main	Yellow	7	10-14	Sweet	51/2	
Golden Cross Bantam*	Main	Yellow	8	12-14	Sweet	61/2	
Golden Early Market	Early	Yellow	7	10-14	Sweet	41/2	
Honey June	Late	White	8	12-16	Semi-sweet	8	
Howling Mob	Main	White	71/2	12-16	Sweet	8 7 7	
Ioana*	Main	Yellow	71/2	12-14	Sweet		
Marcross*	Early	Yellow	7 -	12-16	Sweet	5 8 7	
Mossheart	Late	Yellow	8	14-18	Near sweet	8	
Oregon Evergreen	Late	White	8	12-14	Sweet		
Spancross*	Early	Yellow	61/2	10-14	Sweet	51/2	
Stowell's Evergreen	Late	White	9	16-18	Sweet	8 7	
Surcropper	Late	White	7	10-14	Semi-sweet	7	
Tendergold*	Main	Yellow	71/2	12-14	Sweet	6	
Truckers' Favorite	Main	White	71/2	12-16	Roasting	6	
Whipple's Early Yellow	Main	Yellow	7	12-16	Sweet	6	

*—A hybrid variety.

GARDEN PEAS

			Pla	nt		Pod		6	Similar
Variety	Season	Wilt*	Inches	Color	Shape	Color	Inches	Seed	Strains
Alaska	1st Early	w. r.	28	Light	Blunt	Light	21/2	Smooth	
Alderman	Main	w. r.	50	Dark	Pointed	Dark	41/2	Wrinkled	Telephone
Amer, Wonder	Early		12	Dark	Blunt	Light	21/2	Wrinkled	
Bountiful	1st Early	w.r.	30	Med.	Pointed	Med.	3	Dimpled	Ameer
Champion of Eng.			50	Med.	Blunt	Light	3	Wrinkled	
Dwf. Telephone	Late	w. r.	24	Light	Pointed	Light	41/2	Wrinkled	
Everbearing	Late	w r.	28	Dark	Blunt	Light	3	Wrinkled	No. 40.
Giant Stride	Late	w.r.	26	Dark	Pointed	Dark	43/4	Wrinkled	{ Icer.
Gilbo ·	Main	w.r.	26	Dark	Pointed	Dark	41/2	Wrinkled	[[Wy. Wonder
Gradus	Early		32	Med.	Pointed	Med.	4	Wrinkled	
Hundredfold	Early		20	Dark	Pointed	Dark	4	Wrinkled	
Laxtonian	Early		16	Dark	Pointed	Dark	41/4	Wrinkled	
Lax's. Progress	Early		15	Dark	Pointed	Dark	41/2	Wrinkled	
Lax's. Superb	Early		17	Light	Pointed	Med.	4	Dimpled	Early Bird
Little Marvel	Early		18	Dark	Blunt	Dark	3	Wrinkled	
Marrowfat Wh.	Late	w. r.	50	Med.	Blunt	Light	3	Smooth	
Morse's Market	Main	****	26	Med.	Pointed	Dark	41/2	Wrinkled	
Nott's Excelsion	Early		15	Dark	Blunt	Light	23/4	Wrinkled	
Onward	Main		26	Light	Blunt	Dark	23/4	Wrinkled	
Pedigree Ex. Ey.	1st Early	w. r.	26	Light	Blunt	Light	21/2	Smooth	First & Best
Pilot	Early	*****	30	Med.	Pointed	Med.	31/2	Smooth	
Premium Gem	Early	w.r.	22	Dark	Blunt	Light	23/4	Wrinkled	
Stratagem	Late	11, 1,	26	Dark	Pointed	Dark	41/2	Wrinkled	
Teton	Main	w. r.	32	Dark	Blunt	Dark	33/4	Wrinkled	
Thomas Laxton	Early	*** 1 -	34	Dark	Blunt	Dark	31/2	Wrinkled	
World's Record	Early		24	Light	Pointed	Med.	31/2	Wrinkled	

*w. r.-Resistant to Fusarium wilt.





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COMMERCIAL VARIETIES

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0

Ask for Dealers List

H. D. GARWOOD SEED CO. ROCKY FORD - COLORADO

"The Home of the Cantaloupe"

CABBAGE

All Head	Variety	Season	Shape	Diam. Inches	Weight in lbs.	Yellows-resistant Strain
Savoy Perfection Mid Globe / 0 Succession Mid Flat globe 10 8 Winningstadt Mid Conical 6 3½	All Season Amer. Drumhead Charleston Wakefield Copenhagen Market Early Flat Dutch Early Round Dutch Glory of Enkhuizen Golden Acre Green Acre Hollander Jersey Wakefield Mammoth Red Rock Midseason Market Penn. State Prem. Late Dutch Red Dutch Savoy Perfection	Mid Late Early Early Mid Mid Mid Early Early Late Late Mid Late Late Late Late Mid	Flat globe Flat Conical Globe Flat Globe Globe Globe Globe Globe Globe Globe Flat globe Flat globe Flat globe Flat globe Flat globe Flat globe	9 12 6½ 6 11 7½ 8 6 6 6 7½ 5 7 8 7½ 10 7	8 11 4 31/2 10 41/2 6 3 3 61/2 21/2 7 6 51/2 8 7 6 8	Wisc. All Season {Racine Market Marion Market Improved Globe Resist. Gold Acre Wisc. Hollander Jersev Queen

LETTUCE

Variety	Season	Туре	Size	Outer Color	Seed	Use
Big Boston	Mid	Butter head	Medium	Dark green	White	Local
Brown Dutch	Mid	Butter head	Medium	Dark green	Black	Home
Chicken	Mid	Non-heading	Very tall	Dark green	White	Chickens
Dark Green Cos	Mid	Cos	Med. large	Dark green	White	Home
Grand Rapids	Early	Loose	Large	Light green	Black	Forcing
Hanson	Mid	Cabbage	Large	Yellow green	White	Local
Iceberg	Late	Cabbage	Large	Light green	White	Local
Imperial F	Late	Cabbage	Medium	Bright green	White	Shipping
Imperial D	Late	Cabbage	Medium	Bright green	White	Shipping
Imperial 44	Late	Cabbage	Med. large	Light green	White	Shipping
Imperial 152	Late	Cabbage	Med. large	Light green	White	Shipping
Imperial 847	Late	Cabbage	Med. large	Med. light green	Black	Shipping
Imperial 850	Late	Cabbage	Med. large	Med. light green	White	Shipping
May Queen	Early	Cabbage	Med. large	Light green	White	Forcing
New York	Late	Cabbage	Large	Bright green	White	Shipping
New York 12	Mid	Cabbage	Large	Lighter than N.Y.	White	Shipping
New York 515	Mid	Cabbage	Med. large	Brighter than 12	White	Shipping
Prize Head	Early	Loose	Medium	Tinged brown	White	Home
Salamander	Mid	Butter globe	Medium	Med. green	Black	Local
Simpson b. s.	Early	Loose	Large	Light green	Black	Local
Simpson Ey. Curled	Early	Loose	Med. large	Yellow-green	White	Local
Tennisball	Mid	Butter globe	Medium	Med. green	White	Local
White Boston	Mid	Butter head	Medium	Med. green	White	Local
White Paris	Mid	Cos	Med. large	Med. dark green	White	Local

ONIONS

	Season	Shape	Exterior Color	Notes
Australian Brown Brigham Yellow Globe Crystal Wax Early Yellow Globe Ebenezer Golden Globe Nebuka Prizetaker Red Wethersfield Southport Red Globe Southport Yellow Globe Sweet Spanish White Sweet Spanish Yellow White Portugal Yellow Danvers Globe Yellow Strasburg	Mid Mid Early Early Mid Late Perennial Mid Late Mid Late Mid Late Mid Late Mid Late Mid Late Mid Mid Late Mid Mid Mid Mid Mid	Flat globe Globe Flat Globe Deep flat Long globe Bunching Large globe Deep flat Globe Globe Globe Globe Globe Thick flat Globe Flat	Brown Yellow White Rich yellow Dk. yellow Rich yellow White Lt. yellow Purple red Purple red White Orange yellow White Amber gold White Med. yellow Yellow	Strong flavor Good keeper For S. W. shippers Good keeper For good sets Good for sets Does not bulb Thin skin For sets & storage The best red The best white Good keeper Large size Large size Pickles & bunching Standard variety Hardy, keeps well

MELONS

Variety	Season	Shape	Size Inches	Exterior	Wt. lb.	Flesh	Use, etc.
Banana	Main	Long	20x4	Lemon	7	Salmon	Home
Bender's Surprise		Oval	8x7	Deep furrows	7	Salmon	Local
Burrell's Gem	Main	Long Oval	7x5	Heavy net	31/2	Pink	Shipping
Cassaba	Late	Round	8x7	Yellow	6	White	Calif. Shipping
Eden Gem	Early	Globe	5½x5	Thick net	3	Green	Shipping
Emerald Gem	Early	Round	4½x5	Smooth ribs	21/4	Salmon	Home
Fordhook	Early	Oblate	4x5	Netted ribs	2	Salmon-yel.	Home
Hackensack	Early	Round	5x6	Deep furrows	3	Green	Home
Hale's Best	Early	Oval	6x5	Heavy net	4	Salmon	Shipping
Hearts of Gold	Main	Globe	6x6	Netted ribs	21/2	Pink	Shipping
Honey Ball	Late	Globe	5x5	Nr. smooth	31/2	Green	All-Purpose
Honey Dew	Late	Round	7½x7	Smooth	6	Green	Shipping
Honey Rock	Early	Globe	5½x5	Coarse net	31/2	Salmon	Local
Milwaukee Mkt.	Early	Round	7x6	Shallow ribs	51/2	Deep Pink	Home
Montreal Mkt.	Main	Round	7x8	Deep ribs	71/2	Green	Home
Netted Gem	34 - 1	D	51/25	II	21/	Carra	Local
(Rocky Ford)	Main	Round Oval	5½x5 6x5	Heavy net Heavy net	21/2	Green Salmon	Shipping
No. 45	Main Main	Oval	7x6	Dark green	5	Salmon	Home
Osage Desfects Imad	Main	Round	6x5	Medium net	3	Orange	Shipping
Perfecto, Impd. Pollock 10-25	Main	Globe	6x5½	Thick net	21/2	Salmon	Shipping
Pride of Wisc.	Main	Round	6x51/2	Sparse net	31/2	Orange	Local
Oueen of Colo.	Main	Round	6½x6	Coarse net	4	Orange	Local
Tip Top	Main	Oval	7x6	Slight ribs	6	Salmon	Local
TIP TOP	Inrain	Ovai	7.40	Olight 1103	1 0	Dannon	Bocar

*--Mildew-resistant

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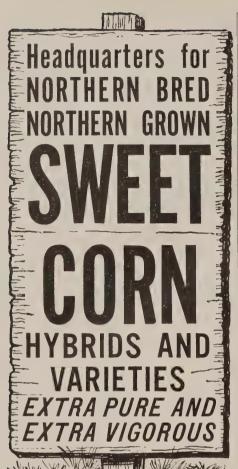
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- 4 Hand picked and hand sorted.
- Dried in thermostatically controlled, circulating air, at temperature under 105 degrees.
- 6 Handled entirely by hand to avoid any possible damage to seed coats.
- **7** Every lot germination tested 3 times in duplicate.
- 8 Every strain tested for yield, sweetness, tenderness, maturity.

HYBRIDS

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VARIETIES

Golden Bantam Bantam Evergreen Early Evergreen Golden Early Market Golden Sunshine Country Gentlemen Whipples Early Yellow Whipples Early White

Ask About Our Field Corn Hybrids and Varieties. Maturities from 80 to 125 Days.



PEPPERS

			Length	Diam.	Col		
Variety	Season	Flavor	Inches	Inches	Young	Mature	Shape
Bell	Early	Sweet: hot ribs	3	23/4	Green	Red	Blocky
California Wonder		Sweet	41/2	31/2	Green	Crimson	Oblong
Cayenne	Mid	Very hot	5	31/2	Green	Red	Long pointe
Chinese Giant	Late	Sweet	41/2	41/2	Green	Scarlet :	Square
Early Giant	Early	Sweet	41/2	31/2	Green	Red	Nr. square
Hungarian	Early	Pungent	6	$1\frac{1}{2}$	Yellow	Crimson	Long pointe
Paprika	Mid	Mostly sweet	4	11/4	Green	Dk. red	Tapered
Pimento	Mid	Sweet	31/4	21/4	Green	Crimson	Heart
Red Chili	Late	Very hot	2	1/2	Green	Dk. red	Tapered
Ruby King	2nd Early	Sweet	5	3	Green	Red	Tapered
Squash (Tomato)	Late	Sweet	11/2	21/4	Green	Red	Tomato
Tabasco	Late	Hot	1	1/2	Yel-green	Red	Tapered
World Beater	Mid	Sweet	5	31/2	Green	Red	Oblong

RADISHES

Variety	Season	Days	Outer Color	Shape
Cavalier	Summer	24	Scarlet	Olive
China Rose	Winter	55	Bright red	Oblong, 5" long
China White	Winter	60	White	Oblong, 8" long
Crimson Giant	Summer	30	Deep crimson	Turnip, 11/2" diam.
Early Scarlet Globe	Summer	24	Scarlet	Olive to globe
French Breakfast	Summer	25	Scarlet, white tip	Oblong, 1½" long
Icicle	Summer	30	White	Tapered, 5" long
Long Scarlet	Summer	28	Deep scarlet	Tapered, 5" long
Scarlet Turnip				
white-tipped	Summer	27	Scarlet, white tip	Turnip, 1" diam.
Spanish Long	Winter	56	Black	Cylindrical, 8" long
Spanish Round	Winter	56	Black	Turnip, 3" diam.
Sparkler	Summer	27	Scarlet, white tip	Near globe, 1½" diam.
White Strasburg	Summer	40	White	Tapered, 5" long

TOMATOES

			Fruit						
Variety	Season	Plant	Shape	Color	Size				
Bonny Best Break o'Day Cardinal Chalk's Jewel Clark's Early Cooper's Special Earliana Golden Queen Greater Baltimore Grothen's Globe Gulf State Mkt. June Pink Livingston's Globe Marglobe Mingold Oxheart Ponderosa Pritchard Rutgers Scarlet Dawn Stokesdale	Main Early Main Main Early Main Early Late Main Early Main Early Main Early Main Main Main Main Late Late Main Main Early Main Early	Medium *Medium Strong Medium Prolific Short Short Medium Large *Medium heavy Medium Short Strong *Large Medium Sprawling Large *Self-Topping *Large Medium Medium	Oblate Globe Semi-globe Fl. globe Oblate Globe Fl. globe Fl. globe Deep flat Flat Globe	Red Red Red Red Red Pink Red Vellow Red Pink Pink Pink Red Yellow Red Red Red Red Red Red Red Red	Med. large Medium V. large Medium Medium Medium Medium Large Large Medium Med. large				
Stone	Late	Large	Deep flat	Red	Large				

^{*}Varieties so marked are in greater or less degree resistant to disease.

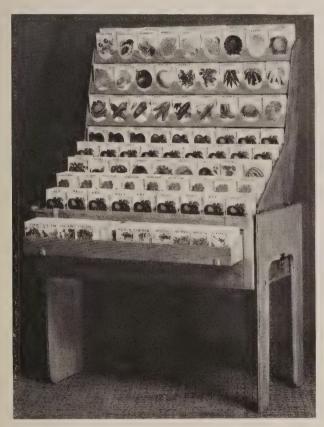
WATERMELONS

Variety	Season	Color	Shape	Wt., Ibs.	Seed	Use, etc.
Ala, Sweet	Mid	Green, striped	Oblong	25	White, mottled	Shipping
Chilean	Mid	Med. gn., striped		18	Black	Shipping
Cole's Early	Early	Dr. gn., striped	Thick oval	20	Black	Home
Dixie Oueen	Mid	Lt. gn., striped	Thick oval	30	White	Shipping
Early Kansas	Mid	Dk. gn., striped	Thick oval	40	Brown	Local
Fla. Favorite	Early	Med. gn., striped		30	White	Local
Fla. Giant	Late	Dark green	Round	50	Black	Shipping
Ga. Rattlesnake	Mid	Lt. gn., mottled	Oblong	30	White, bl. tip	Shipping
Golden Honey	Mid	Dark green;				
Golden Honey	21210	flesh vellow	Thick oval	20	Brown	Home
Gravstone	Mid	Grav-green	Thick oval	35	White	Local
Halbert's Honey		Dark green	Cylindrical	30	White, bl. tip	Local
Hawkesbury	Ziid Daiij	Danie green	O) marketi		Transco, our exp	2000
(Grev Shipper)	Mid	Grav. veined	Oblong	35	Dark brown	Shipping, w.r.*
Irish Grav	Late	Light green	Oblong	30	White	Shipping
King & Oueen	Mid	Cream, striped	Round	12	Black	Storing
Kleckley's Sweet	Mid	Dark green	Oblong cyl.	30	White, br. tip	Kleckley No. 6 is w.r.*
Klondike		Dark green	Thick		Transc, Br. crp	TELECORICY TYON O'15 WILL
Kiondike	Ziid Daily	Dark green	oblong	2.5	Black	Klondike R 7 is w.r.*
Striped do	2nd Forly	Green, mottled	Thick	20	Diack	izionalite it i is wii.
Striped do	Ziid Dairy	Orcen, mornea	oblong	25	Bl. mottled	Shipping
Leesburg	Mid	Deep green	Oblong	30	White	Shipping, w.r.*
Northern Sweet	Early	Gn., thin stripes	Short oval	12	Brown, dk, edge	Home
Peerless	Late	Med, green	Short	12	Drown, dk. edge	Tionic
1 eeriess	Late	Wicd. green	oblong	20	White	Home
Schochler	Late	Gn., faint stripes		45	Brown	Shipping
Stone Mountain	Mid	Med. dk. green	Round-oval	40	White, bl.	Stone Mt. No. 5 is w.r.*
Thurmond Grey	Late	Gray-green	Long, cyl.	35	Brown	Shipping
Tom Watson	Late	Deep green	Cylindrical	35	Br., mottled	Shipping
Wondermelon	Mid	Dark green	Large	33	Dis, mottled	Ompring
Wondermeion	14110	Dain Sicell	oblong	35	White	Local

^{*}w.r.—resistant to Fusarium wilt.

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CUCUMBERS

	Use	Season	Spines	Length Inches	Diam. Inches	Color	Shape
A & C Arlington Boston Pickling Chicago Pickling Clark's Special Colorado Davis Perfect Early Fortune Gherkin Long Green, Imp'd. Lemon Longfellow Nat. Assn. Pickle Snow's Perfection Stavs Green	Slicing Slicing Pickling Pickling Slicing Slicing Slicing Slicing Slicing Slicing Slicing Slicing Slicing Slicing Slicing Slicing Slicing Slicing	Mid Early Early Early 2nd Early 2nd Early 2nd Early 2nd Early Mid Mid Mid Late Early Early	White White Black Black White White White Green Black Black White Black White Black White White	8½ 7½ 6 6½ 8½ 8½ 9 8 2½ 11 3 12 6 5½ 7	21/4 21/2 21/4 21/4 21/4 21/4 21/2 1 21/2 21/2	Dark green Med. green Med. green Med. green Dark green Dark green Dark green Dark green Light green Loark green Loark green Lemon Very dark Dark green Dark green Dark green Dark green	Cylindrical Semi-blunt Slight taper Blunt ended Tapered, blocky Cylindrical Tapered Slight taper Oval Straight, warted Oval Straight, blunt Straight Blunt ended V. slight taper
Straight-8 Woodruff	Slicing Slicing	Mid 2nd Early	White White	8 8	21/2	Dark green Dark green	Cylindrical Taper to ends

LIMA BEANS

		Pod			Seeds		
Variety	Plant	Length Inches	Width Inches	Seeds Per Pod	Size	Shape	Color
Baby Potato Burpee Imp'd. Challenger Clark's Bush Dreer's Florida Butter Fordhook Henderson's Jackson Wonder King of Garden Large White Seibert's Early Sieva Small White Wood's Prolific Yoopy's Prolific	Bush Bush, large Pole Bush, small Bush, large Pole Bush, large Bush, small Bush Pole Pole Bush Pole Bush Pole	23/4 5 4 ½ 23/4 3 3/4 4 4 23/4 3 6 4 ½ 3 ½ 3 ½ 3 3/4 3 3/4 3 3/4	3/4 1 1/4 1 1/4 1 1/4 3/4 1 3/4 3/4 1 1/4 1 1/4 3/4 3/4 3/4	3-4 4 4 3-4 3-4 3-4 3-4 4-5 4 3-4 4-5 4 3-4 3-4	Small Large Large Small Large Small Large Small Large Small Carge Small Small Large Large Large Medium	Thick Thick, flat Thick Oval, flat Thick, oval Oval Thick, oval Oval, flat Flat Thick, flat Squarish Flat Flat Flat, oval	Bright green Greenish white Pale green Greenish white Buff, speckled White White White White White White White White White White White

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Important SPRAYING Information



Manufacturers of insecticides and fungicides have scientifically prepared many sprays and dusts that have proved effective in the control and eradication of the numerous insects and fungus diseases that attack growing crops. These products are sold by the manufacturers under various trade names. In order to make it easier for the users of this Guide to ascertain which thewing cides or fungicides to use in combating or controlling a certain pest or disease, the following table is arranged, giving the names of products that have been found effective.

The A. S. Boyle Co., Jersey City, N. J. "Ridz Garden Spray" "Ded Nicotine Spray"

California Spray-Chemical Richmond, Calif., Elizabeth, N. J.

"Ortho" "Extrax" "Greenol" "Nursery Volck"
"Garden Volck"

Hammond Paint & Chemical

Co., Beacon, N. Y.
"B-B Dust"
"Copper Solution" "Formacide" "Grape & Rose Dust"
"Liquid Slug Shot"
"Naptoside" "Pyrethrum Powder" "Slug Shot Dust'
"Sodium Oleate" "Stabilized Rotenone Dust" "Thrip Juice Spray"
"Triad"

"Whale Oil Soap" Dow Chemical Co., Midland, Mich. The Dow Line

Kay-Fries Chemicals, Inc., New York, N. Y. "Nicotrol"

"Penetrol" — (spreader for arsenicals, Bordeaux and ground Derris)

The McCormick Sales Co., Baltimore, Md.
"Red Arrow Garden Spray" "Special Red Arrow Garden Spray"

"Black Arrow No. 5000" "McCormick Rotenone Dust"

"Rotenone Greenhouse Spray" "Bee Brand Derris Powder"

"Bee Brand Flea Powder"
"Bee Brand Insecticidal
Shampoo" "Bee Brand Disinfectant"

"Bee Brand Household In-sect Spray"

"Bee Brand Insect Powder"
"Bee Brand Canary Lice
Powder"

Mechling Bros. Chemicals, Div. General Chemical Co., Philadelphia, Pa. "Filmfast"

"Hydroxcide" "Japtox"

"Mechling's Scale Oil" "Mechling's Arsenate of Lead' "Mechling's Arsenate Cal-

cium "Mechling's Bordeaux Mix"Mechling's Dritomic Sul-

"Mechling's Lime Sulfur Solution"

"Mechling's Paris Green"

"Nicotine Sulphate"
"Pyrote"

One-Spot Co., Elkridge, Md. "One-Spot"

B. G. Pratt Company, New York, N. Y. "D-X"

"Scalecide" "Sulfocide"

Protex Industries, Inc. New York, N. Y. "Protex Colloidalized Sulphur" "Protex Colloidalized Arsenate of Lead" "Protex Colloidalized Red Copper Oxide" "Protex Dormant" "Protex Rotenone"

"Protex Colloidalized Rotenone"

Tobacco By-Products & Chemical Corp., Louisville, Ky. "BlackLeaf 40" "Nico-Fume Liquid"

	Disease or Insect	What to Use					
Apple and Pear	Codling Moth	Black Leaf 40; D-X combined with arsenate of lead; Mechling's Arsenate of Lead; Slug Shot Dust; Dow; Protex Colloidalized Arsenate of Lead.					
	San Jose Scale	Mechling's Scale Oil; Nicotrol; Scalecide; Dow; Protex Dormant.					
	Scab	Mechling's Lime Sulfur Solution; Mechling's Dritomic Wettable Sulfur; Dow; Protex Colloidalized Sulphur.					
	Wooly Aphis	Black Leaf 40; D-X; Liquid Slug Shot; Mechling's Nicotine Sulfate; Nicotrol; Pyrote; Penetrol; Thrip Juice Spray; Triad; Dow; Ridz Garden Spray; Ded Nicotine Spray; Protex Colloidalized Rotenone and Sulphur.					
Asparagus	Asparagus Beetle	D-X; Liquid Slug Shot; One-Spot; Mechling's Rotenone 400; Pyrote; Slug Shot Dust; Red Arrow Garden Spray; Stabilized Rotenone Dust; Dow; Protex Colloidalized Sulphur and Rotenone; Protex Rotenone; McCormick Rotenone Dust. Calif. Spray Products.					
	Rust	Copper Solution; Dow; Protex Colloidalized Red Copper Oxide.					
Aster	Aphis	Black Leaf 40; D-X; Liquid Slug Shot; Mechling's Nicotine Suphate; Nicoloid; Red Arrow Garden Spray; McCormick Rotenone Dust; Nicotrol; O.K. Plant Spray; One-Spot; Pyroloid; Penetrol; Pyrote; Thrip Juice Spray; Triad; Dow; Ridz Garden Spray; Ded Nicotine Spray; Protex Colloidalized Sulphur and Rotenone; Protex Rotenone.					
	Aster Beetle	D-X; Liquid Slug Shot; Mechling's Arsenate of Lead; Mechling's Nicotine Sulfate; One Spot; Red Arrow Garden Spray; Pyrote; Slug Shot Dust; Stabilized Rotenone Dust; Dow; Protex Colloidalized Sulphur and Rotenone; McCormick Rotenone Dust.					
	Rust Leafspot	Dritomic Wettable Sulfur; Sulfocide; Dow; Protex Colloidalized Sulphur.					
Beans	Aphis	Black Leaf 40; D-X; Liquid Slug Shot; Nicotrol; One-Spot; Penetrol; Pyrote; Red Arrow Garden Spray; Sulrote; Thrip Juice Spray; Triad; Dow; Ridz Garden Spray; Ded Nicotine Spray; Protex Colloidalized Sulphur and Rotenone; Protex Rotenone. Calif. Spray Products.					
	Mexican Bean Beetle	B-B Dust; D-X; Liquid Slug Shot; One-Spot; Pyrote; Slug Shot; Sulrote; Dow; Ridz Garden Spray; Protex Colloidalized Sulphur and Rotenone; Red Arrow Garden Spray; McCormick Rotenone Dust. Calif. Spray Products.					
	Anthracnose, Powdery Mildew	Sulrote; Mechling's Bordeaux Mixture; Mechling's No. 20 Blight Dust; Sulfocide; Dow; Protex Colloidalized Red Copper Oxide. Calif. Spray Products.					

	Disease or Insect	What to Use
	Leaf Spot	Sulrote; Dritomic Wettable Sulfur; Sulfocide; Dow; Protex Colloidalized Sulphur. D-X; Liquid Slug Shot; Sulrote; Pyrote; Dow; Ridz Garden Spray; Ded Nicotine Spray;
Beets	Beet Leaf Hopper	Protex Colloidalized Sulphur and Rotenone; Protex Rotenone; McCormick Rotenone Bust, Black Arrow No. 5000. Calif. Spray Products.
Cabbage, Cauli- flower, Brussels Sprouts, Turnip	Cabbage Worm	D-X; One-Spot; Penetrol; Pyrote; Slug Shot Dust; Mechling's Arsenate Calcium; Mechling's Rotenone 400; Stabilized Rotenone Dust; Sulrote; Dow; Ridz Garden Spray; Protex Colloidalized Sulphur and Colloidalized Rotenone; McCormick Rotenone Dust; Black Arrow No. 5000; Red Arrow Garden Spray. Calif. Spray Products.
Carrot Parsnip	Web Worm	Mechling's Arsenate of Lead; Dow; Protex Colloidalized Arsenate of Lead. Calif. Spray Products.
	Thrips	Black Leaf 40; D-X; Liquid Slug Shot; Nico-Fume Liquid; Nicotrol; Penetrol; Mechling's Nicotine Sulphate; Red Arrow Garden Spray; Black Arrow No. 5000; Pyrote; Sulrote; Thrip Juice Spray; Dow; Ridz Garden Spray; Ded Nicotine Spray; Protex Colloidalized Sulphur and Rotenone; Protex Rotenone.
Carnation	Aphis	Black Leaf 40; D-X; Liquid Slug Shot; Mechling's Nicotine Sulfate; Nico-Fume Liquid; Red Arrow Garden Spray; One-Spot; Pyrote; Thrip Juice Spray; Triad; Dow; Ridz Garden Spray; Ded Nicotine Spray; Protex Colloidalized Sulphur and Rotenone; Protex Rotenone.
	Caterpillars	D-X and Arsenate of Lead; One-Spot; Mechling's Arsenate of Lead; Pyrote; Dow; Ridz Garden Spray; Protex Colloidalized Arsenate of Lead; Red Arrow Garden Spray.
Celery	Blight	Copper Solution; Grape & Rose Dust; Hydroxcide; Mechling's Bordeaux Mixture; Triad; Dow; Protex Colloidalized Red Copper Oxide. Calif. Spray Products.
COTOT,	Tarnished Plant Bug	D-X; Mechling's Nicotine Sulfate; Pyrote; Dow; Protex Colloidalized Sulphur & Rotenone; Protex Rotenone; Red Arrow Garden Spray. Calif. Spray Products.
Cherry	Rot	Dritomic Wettable Sulfur; Sulfocide; Dow; Protex Colloidalized Sulphur.
	Curculio	D-X and Arsenate of Lead; Mechling's Arsenate of Lead; Penetrol; Dow; Protex Colloidalized Arsenate of Lead. Calif. Spray Products.
	Aphis	Black Leaf 40; D-X; Killogen; Liquid Slug Shot; Mechling's Nicotine Sulfate; Nico-Fume Liquid; Nicotrol; One-Spot; Penetrol; Pyrote; Thrip Juice Spray; Triad; Dow; Ridz Garden Spray; Ded Nicotine Spray; Protex Rotenone; Red Arrow Garden Spray.
	Red Spider	D-X; One-Spot; Pyrote; Dow; Ridz Garden Spray; Protex Colloidalized Rotenone; Protex Colloidalized Sulphur & Rotenone; Rotenone Greenhouse Spray.
Chrysanthe- mum	Leaf Hopper	D-X; Mechling's Nicotine Sulfate; One-Spot; Pyrote; Dow; Ridz Garden Spray; Ded Nicotine Spray; McCormick Rotenone Dust.
	Thrips	Black Leaf 40; D-X; Liquid Slug Shot; Mechling's Nicotine Sulfate; Nico-Fume Liquid; McCormick Rotenone Dust; Nicotrol; Penetrol; Pyrote; Thrip Juice Spray; Dow; Ridz Garden Spray; Ded Nicotine Spray; Protex Colloidalized Sulphur; Protex Colloidalized Sulphur & Rotenone.
	Wilt Mildew, Leaf Spot	Mechling's Dritomic Wettable Sulfur; Sulfocide; Dow; Protex Colloidalized Sulphur; Protex Colloidalized Red Copper Oxide.
Corn—Sweet	Ear Worm	D-X; Mechling's Arsenate of Lead; Slug Shot Dust; Dow: Protex Colloidalized Arsenate of Lead; Red Arrow Garden Spray; McCormick Rotenone Dust. Calif. Spray Products.
	Striped Beetle	D-X; Liquid Slug Shot: Mechling's Arsenate Calcium; One-Spot; Pyrote; Slug Shot Dust; Stabilized Rotenone Dust; Sulrote: Dow: Protex Rotenone; Protex Colloidalized Sulphur & Rotenone; McCormick Rotenone Dust; Red Arrow Garden Spray. Calif. Spray Products.
Cucumber	Aphis	Black Leaf 40; D-X; Liquid Slug Shot; Nicotrol; One-Spot; Penetrol; Pyrote; McCormick Rotenone Dust; Thrip Juice Spray; Triad; Dow; Ridz Garden Spray; Ded Nicotine Spray; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone; Red Arrow Garden Spray.
	Anthracnose, Dewy Mildew, Melon Rust	Mechling's Bordeaux Mixture; Sulfocide; Dow; Protex Colloidalized Red Copper Oxide. Calif. Spray Products.
	San Jose Scale	Mechling's Lime Sulfur Solution; Penetrol; Scalecide; Dow; Dormant Protex.
Currant	Worm	Black Leaf 40; D-X; Mechling's Rotenone 400; Slug Shot Dust; Dow; Protex Colloidalized Arsenate of Lead; Protex Rotenone.
	Aphis	Black Leaf 40; D-X; Liquid Slug Shot; Mechling's Nicotine Sulfate; Nico-Fume Liquid; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone; Nicotrol; One-Spot; Penetrol; Pyrote; Thrip Juice Spray; Triad; Dow; Ridz Garden Spray; Ded Nicotine Spray; Red Arrow Garden Spray.
	Beetles	D-X; Mechling's Arsenate of Lead; Mechling's Rotenone 400; Dow; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone; Red Arrow Garden Spray.
	Tarnished Plant Bug	D-X; Liquid Slug Shot; Mechling's Nicotine Sulfate; Pyrote; Slug Shot Dust; Dow; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone; Red Arrow Garden Spray.
Dahlia	Red Spider	D-X; Pyrote; Dow; Ridz Garden Spray; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone; McCormick Rotenone Dust; Rotenone Greenhouse Spray.
	Leaf Hopper	Mechling's Nicotine Sulfate; Pyrote; Dow; Ridz Garden Spray; Ded Nicotine Spray; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone; Red Arrow Garden Spray.
	Thrips	Black Leaf 40; D-X; Liquid Slug Shot; Mechling's Nicotine Sulfate; Nicotrol; Penetrol; Pyrote; Thrip Juice Spray; Dow; Ridz Garden Spray; Ded Nicotine Spray; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone; Red Arrow Garden Spray.
	Mildew	Dritomic Wettable Sulfur; Sulfocide; Dow; Protex Colloidalized Sulphur; Protex Colloidalized Red Copper Oxide.
	Mealy Bug	D-X; Liquid Slug Shot; Nicotrol; One-Spot; Pyrote; Dow; Ridz Garden Spray; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone; Red Arrow Garden Spray.
Ferns	White Fly	D-X; Pyrote; Thrip Juice Spray; Dow; Ridz Garden Spray; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone; Protex Colloidalized Sulphur; Red Arrow Garden Spray; Black Arrow No. 5000.
	Aphis	Black Leaf 40; D-X; Liquid Slug Shot; Mechling's Nicotine Sulfate; Nico-Fume Liquid; Red Arrow Garden Spray; Nicotrol; One-Spot; Penetrol; Pyrote; Thrip Juice Spray; Triad Dow; Ridz Garden Spray; Ded Nicotine Spray; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone.
	Mildew	Copper Solution; Dritomic Wettable Sulfur; Grape & Rose Dust; Sulfocide; Triad; Dow Protex Colloidalized Sulphur.
Gooseberry	Worm	D-X and Arsenate of Lead; Slug Shot Dust; Mechling's Rotenone 400; Dow; Protex Rotenone; Protex Colloidalized Arsenate of Lead.
	Aphids	D-X; Liquid Slug Shot; Nico-Fume Liquid; Nicotrol; One-Spot; Penetrol; Pyrote, Thrig Juice Spray; McCormick Rotenone Dust; Triad; Dow; Ridz Garden Spray; Ded Nicotine Spray; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone. Calif. Spray Products
Lettuce	Mildew	Copper Solution: Grape & Rose Dust; Hydroxcide; Liquid Slug Shot; Triad; Dow; Protex Colloidalized Red Copper Oxide. Calif. Spray Products.
	Gray Mould	Hydroxcide; Dow; Protex Colloidalized Red Copper Oxide; Protex Colloidalized Sulphur

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Power Wheelbarrow
Sprayers



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	Disease or Insect	What to Use
Nasturtium	Aphis	Black Leaf 40; D-X; Liquid Slug Shot; Mechling's Nicotine Sulfate; Nico-Fume Liquid; Red Arrow Garden Spray; McCormick Rotenone Dust; Nicotrol; One-Spot; Penetrol; Pyrote; Thrip Juice Spray; Triad; Dow; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone:
Onion	Thrips	Black Leaf 40; D-X; Mechling's Nicotine Sulfate; Naptoside; Nico-Fume Liquid; Nicotrol; Penetrol; Pyrote; Dow; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone; Bee Brand Derris Powder. Calif. Spray Products.
	Blight	Copper Solution; Grape & Rose Dust; Mechling's Bordeaux Mixture; Triad; Dow; Protex Colloidalized Red Copper Oxide. Calif. Spray Products.
Peas	Aphids	Black Leaf 40; D-X; Liquid Slug Shot; Mechling's Rotenone 400; Nico-Fume Liquid; Nicotrol; One-Spot; Penetrol; Pyrote; Thrip Juice Spray; Triad; Dow; Protex Rotenone; Bee Brand Derris Powder. Calif. Spray Products.
	Rot	Dritomic Wettable Sulfur; Sulfocide; Dow; Protex Colloidalized Sulphur.
Plum	Curculio	D-X and Arsenate of Lead; Mechling's Arsenate of Lead; Penetrol; Dow; Protex Colloidalized Arsenate of Lead.
	Early Blight	Copper Solution; Grape & Rose Dust; Hydroxcide; Triad; Dow; Protex Colloidalized Red Copper Oxide. Calif. Spray Products.
Potato	Late Blight	Copper Solution; Grape & Rose Dust; Hydroxcide; Dow; Protex Colloidalized Red Copper Oxide.
	Potato Bugs	Hydroxcide; Insectogen; Mechling's Paris Green; One-Spot; Penetrol; Slug Shot Dust; Dow; Protex Colloidalized Sulphur & Rotenone. Calif. Spray Products.
	Cabbage Worm	D-X; Liquid Slug Shot; Mechling's Arsenate Calcium; One-Spot; Penetrol: Pyrote; Slug Shot Dust; Dow; Protex Colloidalized Arsenate of Lead; McCormick Rotenone Dust; Black Arrow No. 5000; Red Arrow Garden Spray. Calif. Spray Products.
Radish	Harlequin Bug	D-X; Liquid Slug Shot; Mechling's Nicotine Sulfate; Dow; Protex Colloidalized Sulphur & Rotenone; McCormick Rotenone Dust; Black Arrow No. 5000; Red Arrow Garden Spray.
	Aphids	Black Leaf 40; D-X; Liquid Slug Shot; Nico-Fume Liquid; Nicotrol; One-Spot; Benetrol; McCormick Rotenone Dust; Black Arrow No. 5000; Red Arrow Garden Spray; Pyrote; Thrip Juice Spray; Triad; Dow; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone. Calif. Spray Products.
	Red Spider	Dritomic Wettable Sulfur; D-X; Liquid Slug Shot; One-Spot; Pyrote; Thrip Juice Spray; Red Arrow Garden Spray; Bee Brand Derris Powder; Rotenone Greenhouse Spray; Dow; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone. Calif. Spray Products.
	Aphis	Black Leaf 40; D-X; Liquid Slug Shot; Mechling's Nicotine Sulfate; Nico-Fume Liquid; Red Arrow Garden Spray; Nicotrol; One-Spot; Penetrol; Pyrote; Thrip Juice Spray; Triad; Dow; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone.
Roses	Brown Canker Black Spot Mildew	Mechling's Bordeaux Mixture; Scalecide; Sulfocide; Dow; Protex Colloidalized Red Copper Oxide. Calif. Spray Products.
	Leaf Roller	Liquid Slug Shot; Mechling's Rotenone 400; Thrip Juice Spray; Dow; Protex Colloidalized Sulphur & Rotenone; Special Red Arrow. Calif. Spray Products.
	Beetles	D-X and Arsenate of Lead; Liquid Slug Shot; Mechling's Arsenate Lead; One-Spot; Red Arrow Garden Spray; Pyrote; Slug Shot Dust; Stabilized Rotenone Dust; Dow; Protex Colloidalized Arsenate of Lead; Protex Colloidalized Sulphur & Rotenone.
	Slugs	D-X; Pyrote; Dow; Protex Colloidalized Sulphur & Rotenone; Protex Rotenone; Red Arrow Garden Spray; Black Arrow No. 5000. Calif. Spray Products.
	Flea Beetle	D-X; Mechling's Rotenone 400; One-Spot; Slug Shot; Stabilized Rotenone Dust; Dow; Protex Rotenone. Calif. Spray Products.
Spinach	Aphids	D-X; Liquid Slug Shot; Nico-Fume Liquid; Nicotrol; One-Spot; Penetrol; Pyrote; Thrip Juice Spray; Dow; Protex Colloidalized Sulphur & Rotenone; Protex Rotenone.
	Leaf Miner	Liquid Slug Shot; Mechling's Nicotine Sulfate; Dow; Protex Colloidalized Sulphur & Rotenone. Calif. Spray Products.
	Striped Cucumber Beetle	D-X; Liquid Slug Shot; Mechling's Rotenone 400; One-Spot; Slug Shot Dust; Stabilized Rotenone Dust; Red Arrow Garden Spray; McCormick Rotenone Dust; Dow; Protex Colloidalized Sulphur & Rotenone; Protex Rotenone; Protex Colloidalized Sulphur.
Squash	Squash Bug	D-X; Liquid Slug Shot; One-Spot; Pyrote; Dow; Protex Collidalized Sulphur & Rotenone; Protex Rotenone; Protex Colloidalized Sulphur; Red Arrow Garden Spray; McCormick Rotenone Dust. Calif. Spray Products.
	Squash Vine Borer	Black Leaf 40; Liquid Slug Shot; Dow; Protex Colloidalized Sulphur & Rotenone; Protex Rotenone; Protex Colloidalized Sulphur; McCormick Rotenone Dust. Calif. Spray Products. phur and Rotenone. Calif. Spray Products.
Sweet Pea	Aphis	Black Leaf 40; D-X; Liquid Slug Shot; Nico-Fume Liquid; Nicotrol; Red Arrow Garden Spray; Bee Brand Derris Powder; McCormick Rotenone Dust; One-Spot; Penetrol; Pyrote; Thrip Juice Spray; Triad; Dow; Protex Colloidalized Sulphur; Protex Colloidalized Sulphur and Rotenone. Calif. Spray Products.
	Mildew Blight	Mechling's Bordeaux Mixture; Dow; Protex Colloidalized Red Copper Oxide. Calif. Spray Products.
	Anthrochose	Mechling's Bordeaux Mixture; Thrip Juice; Dow; Protex Colloidalized Red Copper Oxide.
Tomato	Flea Beetle	Mechling's Bordeaux Mixture; Dow; Protex Colloidalized Red Copper Oxide; McCormick Rotenone Dust. Calif. Spray Products.
	Horn Worm	D-X and Arsenate of Lead; Mechling's Arsenate Lead; Dow; Protex Colloidalized Arsenate of Lead. Calif. Spray Products.
	Leaf Spot	Copper Solution; Mechling's Bordeaux Mixture; Sulfocide; Dow; Protex Colloidalized Red Copper Oxide. Calif. Spray Products.
	Tomato Worm	D-X and Arsenate of Lead; Liquid Slug Shot; Mechling's Arsenate Calcium; Slug Shot Dust; Red Arrow Garden Spray; McCormick Rotenone Dust; Sulrote; Dow; Protex Col- loidalized Arsenate of Lead; Protex Colloidalized Sulphur & Rotenone. Calif. Spray Products.
Watermelon	Aphis	Black Leaf 40; D-X; Liquid Slug Shot; Mechling's Nicotine Sulfate; Nicotrol; McCormick Rotenone Dust; Red Arrow Garden Spray; Penetrol; Pyrote; Thrip Juice Spray; Triad; Dow; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone. Calif. Spray Products
' and Muskmelon	Beetles	One-Spot; Pyrote; Slug Shot Dust; Stabilized Rotenone Dust; Dow; Protex Colloidalized Sulphur & Rotenone; Protex Rotenone; McCormick Rotenone Dust. Calif. Spray Products
	Anthrocnose	Liquid Slug Shot; Mechling's Bordeaux Mixture; Thrip Juice; Dow; Protex; Colloidalized Red Copper Oxide. Calif. Spray Products.



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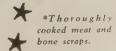


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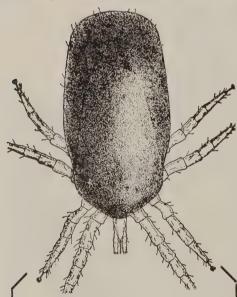
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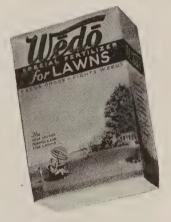
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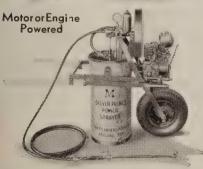
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Douglas Chemical & Supply Co.

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Dow Chemical Co.
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Hammond Paint & Chemical Co.

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Nott Mfg. Co. New York, N. Y. Rose Mfg. Co. Beacon, N. Y.

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American Color & Chemical Co.

Boston, Mass.
American Cyanamid & Chem. Corp.
New York, N. Y.
American Florist Supply Co.

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Ansbacher Siegle Corp.
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Buist Co., Robert
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Calif. Spray-Chemical Corp. Elizabeth, N. J. Douglas Chemical & Supply Co.

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Nicotine Mfg. Co. St. Louis, Mo.

Nott Mfg. Co. New York, N. Y.

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Pratt Co., B. G. New York, N. Y.

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Val-A Company
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St. Louis. Mo.
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Bird & Son, Inc. (Paper)
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Paxton Products Co. Riverside, Calif. Vaughan Seed Store Chicago, Ill.

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McFarland Publicity Service
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Rochester, N. Y.

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Prophetstown, Ill. Schell, Inc., Walter S. Harrisburg, Pa. Vaughan Seed Store Chicago, Ill.

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Chicago, Ill. Bartlett Mfg. Co. Detroit, Mich.

Dobbins Mfg. Co. Elkhart, Ind. Hudson Mfg. Co., H. D. Chicago, Ill. Myers & Bro. Co., The F. E. Ashland, Ohio

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Toledo, Ohio Lansing Specialties Mfg. Co.

Lansing Speciaties M Lansing, Mich. Merck & Co., Inc. Rahway, N. J. Michigan Wire Goods Niles, Mich.

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California Fruit Wrapping Mills, Inc.
Pomona, Calif.

Pomona, Calif.
Germain's Hotkaps Mfg. Div.
Los Angeles, Calif.
Harris Mfg. Co., A. W.
Sleepy Eye, Minn.
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Paxton Products Co.
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Riverside, Cal. Schell, Inc., Walter S. Harrisburg, Pa. Vaughan Seed Store

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Bartlett Mfg. Co. Detroit, Mich. Clark & Son. Walter E. Milford. Conn. Disston & Sons, Inc., Henry

Pisston & Sons, Inc., Henry
Philadelphia, Pa.
Graham & Co., Inc., John H.
New York, N. Y.
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Leonard & Sons, A. M.
Piqua. Ohio
Napley Transplanter Co.
Mamphis N. Y.

Memphis, N. Y. Peck, Stow & Wilcox Co. Southington, Conn.

Smith & Son, Inc., Seymour Oakville, Conn. Tiffany, Carroll R. Conklin, N. Y. Vaughan Seed Store

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(See Bowls—Bulb)

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Chicago, Ill.

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Land O'Lakes Creameries, Inc.
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LeGear Medicine Co., Dr. L. D.

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Dairy Association Co. Lyndonville, Vt.

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Bloomfield, N. J.
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Cincinnati, Ohio
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Cincinnati, Ohio
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New York, N. Y.
Michigan Wire Goods Co.
Niles, Mich.
Perma Tag Co.
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Schell, Inc., Walter S.
Harrisburg, Pa. Harrisburg, Pa.
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Innis, Speiden & Co.
New York, N. Y.
McCullough Seed Co., The J. Chas.
Cincinnati, Ohio
Wood Ridge Mfg. Co.
Wood Ridge, N. J.
Vaughan Seed Store
Chicago, Ill.

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Harrisburg, Pa.
Summers Fertilizer Co., The Baltimore, Md.

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New York, N. Y.
Unadilla Silo Co.
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Arvey Corp.
Chicago, III.
Keene Mfg. Co. (Electric)
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Metropolitan Greenhouse Mfg. Corp.
Brooklyn, N. Y. Brooklyn, N. Y. Vaughan Seed Store

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Germain Seed & Plant Co.

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Lansing Specialties Mfg. Co.

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Star Expansion Bolt Co.

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Nies, Mich.
Star Expansion Bolt Co.
New York, N. Y.
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Vaughan Seed Store
Chicago, Ill

Chicago, Ill.

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Piqua, Ohio
Goulard & Olena, Inc.
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McFarland Organizations Harrisburg, Pa.
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Aurora, Ill. Morse Co., A. B. St. Joseph, Mich. Vaughan Seed Store Chicago, Ill.

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St. Louis, Mo.

Dow Chemical Co.

Midland, Mich.

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New York, N. Y.

Mechling Bros. Chemicals

Philadelphia, Pa.

Nott Mag. Co. Nott Mfg. Co. New York, N. Y. Protex Industries, Inc. New York, N. Y.

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Sudbury Soil Testing Laboratory South Sudbury, Mass. Urbana Laboratories, The Urbana, Ill. Vaughan Seed Store Chicago, Ill.

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Cyclone Mfg. Co.
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Goulard & Olena, Inc.
New York, N. Y.
Hammond Paint & Chemical Co.
Beacon, N. Y.
McCullough Seed Co., The J. Cha Beacon, N. Y.
McCullough Seed Co., The J. Chas.
Cincinnati, Ohio
Mechling Bros. Chemicals
Philadelphia, Pa.
Nicotine Mfg. Co.
St. Louis, Mo.
Nicotine Production Corp.
Clarksville, Tenn.
Tobacco Ry-Products & Chemical Co Tobacco By-Products & Chemical Corp.
Louisville, Ky.
Vaughan Seed Store
Chicago, Ill.

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Michigan City, Ind.
Geyer Mfg. Co.
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Gilson Co., J. E.
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Toledo, Ohio
Goulard & Olena, Inc.
New York, N. Y.
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McCullough Seed Co., The J. Chas. Cincinnati, Ohio

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Michigan Wire Goods Co.
Niles, Mich.
North Wayne Tool Co.
Oakland, Maine

Oakland, Maine
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Jersey City, N. J.
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Union Fork & Hoe Co., The
Columbus, Ohio
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Chicago, Ill.

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Cleveland, Ohio
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Gravely Motor Plow & Cultivator Co.
Dunbar, W. Va.
International Harvester Co.
Chicago, Ill.
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Shaw Mfg. Co.
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Benton Harbor, Mich.
Nagley Transplanter Co.
Memphis, N. Y.
New Idea Inc. New Idea, Inc.
Coldwater, Ohio
Planters Mfg. Co.
Nashville, Tenn.

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Nott Mfg. Co.
New York, N. Y.
Vaughan Seed Store
New York, N. Y.

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Grelle, C. E. Portland, Ore.

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Dow Chemical Co.
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Bartlett Mfg. Co.
Detroit, Mich.
Gardex, Inc.
Michigan City, Ind.
Imperial Bit & Snap Co.
Racine, Wis.
Leonard & Son, A. M.
Piqua, Ohio
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New York, N. Y.
Johnson, Inc., Wm.
Newark, N. J.
Leonard & Son, A. M.
Piqua, Ohio

McCullough Seed Co., The J. Chas.

Cincinnati, Ohio Reichard Mfg. Co., F. H. Bangor, Pa.
Union Fork & Hoe Co., The

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Vaughan Seed Store Chicago, Ill.

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Pubsley & Morrison

Pubsley & Morrison
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Schell, Inc., Walter S.
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Vaughan Seed Store

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Cincinnati, Ohio
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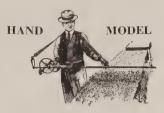
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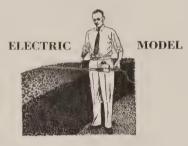
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Chicago, Ill.
Sefton Nat'l Fibre Can Co.
Chicago, Ill.
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Chicago, Ill.

Hart Publications, Inc.

Minneapolis, Minn.

McFarland Co., J. Horace

Harrisburg, Pa.

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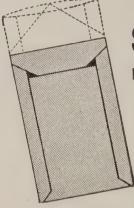
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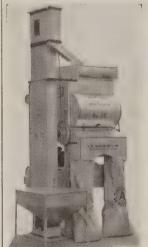
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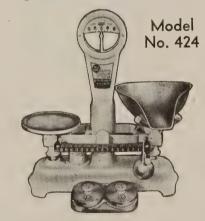
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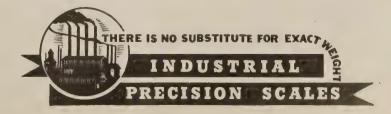
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FIELD AND GRASS SEED INFORMATION This information is made possible through the courtesy of Joe Bohl, Manager, The Chas. H. Lilly Co., Seattle, Washington, who has spent much time in its gathering and assembly.

CROP	Botanical Name	Principal Uses	Average Height Inches	Soil Adaptations	Life	General Information
ALFALFA	Medicago sativa	Seed, Hay, Pasture	20 to 30	Fertile, deep, well drained loam	Long-lived perennia	Best if seeded without nurse crop. Needs firm, fine seedbe
ARTICHOKES, Jerusalem	Helianthus tuberosus	Winter succulence	72 to 96	Fertile bottom lands	Annual	Plant during April or early May 5 inches deep free of weed
BENT GRASSES—						to 42 inches apart, with plants 18 to 24 inches apart.
ASTORIA	Agrostis tenuis, Astoriana	Seed, Lawn, Pasture	16 to 24	Moist, fertile, heavy soils	Long-lived perennial	More versatile than Seaside Bent. Thrives better on uplane
DOMESTIC Mixed	Agrostis spp.	Lawn, Pasture		Moist, fertile, heavy soils		Best of the Bents for farm use. Adapted to veried soil or
HIGHLAND	Agrostis tenuis, Oregonensis	Seed, Lawn, Pasture			Long-lived perennial	Grows well on poor, thin soil Withstands long posicion
COLONIAL (Rhode Island)	Agrostis tenuis	Lawn, Pasture	16 to 24	Moist, heavy, slightly acid soils	Long-lived perennial	Does not spread by rootstalks like other Bonto Good
SEASIDE	Agrostis maritima	Seed, Lawn, Pasture	12 to 20	Moist bottom lands, slightly acid	Long-lived perennial	Adapted to pasture mixtures on maist slightly said lan
BLUEGRASSES—				January World		Suffers greatly from drought.
BULBOUS	Poa bulbosa	Winter Pasture, Hay, Seed	8 to 16	Fertile, well-drained lands		Grows during winter and early spring. Dormant in summ
CANADA	Poa compressa	Pasture	12 to 20	Widely adapted	Long-lived perennial	Grows well with Alfalfa: used mostly on shallow rocky so Withstands drought, cold and close grazing. Thrives at hi
KENTUCKY	Poa pratensis	Seed, Lawn, Pasture	18 to 30	Fertile, moist soils of low acidity	Long-lived perennial	altitudes and on poor soils. Makes dense low growth. Very nutritious. Relished by all livestock. Improves w
SHADY (Wood Meadow Grass)	Poa nemoralis	Shady Lawns, Shady Pasture	18 to 24	Fertile, moist, shaded soils	Long-lived perennial	Does not endure intense sunshine and drought. Thrives h
SHADY (Rough- Stalked Meadow)	Poa trivialis	Shady Lawns, Shady Pasture	18 to 24	Fertile, moist, shaded soils	Long-lived perennial	Does not endure intense supplies and drought. Their h
BROMEGRASS, Smooth	Bromus inermis	Hay, Pasture	20 to 30	Deep clay or clay loam	Long-lived perennial	on shaded lands that are moist and fertile.
BUCKWHEAT	Fagopyram. esculentum	Seed, Green Manure	24 to 36	Wide adaptation	Annual	feet. Not adapted to coast region. Good green manure crop. Sometimes used as smother cr
CEREALS—		Manure			Annual	for weeds. Good catch crop and bee pasture.
BARLEY, Winter	Hordeum vulgare, 6 row Hordeum distichen, 2 row	Seed, Hay	30 to 40	Loams and clays	Winter Annual	Grown mainly as a grain crop. Used for feed and malting
BARLEY, Spring	Hordeum vulgare, 6 row Hordeum distichon, 2 row	Seed, Hay	30 to 40	Loams and clays	Annual	Best nurse crop for starting red clover. Grown mainly as a grain crop. Used for feed and malti-
OATS, Winter	Avena sativa	Seed, Hay	30 to 60	Moist clay loams	Winter Annual	The beardless varieties make good hay. Grown for grain and compenion group for vising legisless.
OATS, Spring	Avena sativa Avena byzantine, Red	Seed, Hay	30 to 60	Moist clay loams	Annual	Good yielder for forage and grain.
RYE, Winter	Secale cereale	Seed, Hay, Pasture	36 to 72	Moderate drainage, wide	Winter Annual	Grown for grain, forage and companion crop. Good yield
RYE, Spring	Secale cereale	Seed, Hay, Pasture	36 to 60	adaptation Moderate drainage, wide		Best grain and forage crop for light dry soils. Lodges bac on fertile moist soils.
WHEAT, Winter	Triticum vulgare, common	C. J II	36 to 60	adaptation	Andusi	Best grain and forage crop for light dry soils. Lodges bac on fertile moist soils.
WHEAT, Spring	Triticum compactum, club Triticum vulgare, common		36 to 60	Bench and bottom lands	Winter Annual	Standard grain crop for fertile lands. Used as a hay cr in some areas, but most profitable as a grain crop.
	Triticum compactum, club		24 to 48	Bench and bottom lands Poor lowlands, waste		Standard grain crop for fertile lands. Used as a hay crop some areas, but most profitable as a grain crop.
CHEAT OR CHESS	Bromus secalinus	Seed, Hay	24 10 48	places places	Winter Annual	Makes good horse hay on wet acid soils. Sometimes smu badly.
ALSIKE	Trifolium hybridum	Seed, Hay	18 to 30		Ch 1: - 1 1: 1	Thrives best where cool and moist. Endures poor drains
LADINO	Trifolium repens latum		10 to 14	Fertile, acid lowlands	Short-lived perennial	Medium long-lived on suitable soil.
WHITE	Trifolium repens	Seed, Pasture	4 to 8	Moist, fertile soils	Short-lived perennial	surface soil. Very close grazing is injurious.
RED		Seed, Pasture	20 to 28	Moist, fertile soils Well drained, fertile	Short-lived perennial	and long-lived on fertile, moist soil.
	Trifolium pratense	Seed, Hay, Pasture	24 to 48	soils Fertile uplands, mod-		Widely grown legume for forage and seed. Adapted to she rotations. Requires an abundance of lime.
MAMMOTH RED	Trifolium pratense	Hay, Pasture Hay, Pasture,	24 to 48	erately moist Light to medium soils	Biennial	Two weeks later than medium red clover. Produces but o crop. Heavy yielder of coarse forage.
SWEET, Yellow	Melilotus officinalis	Green Manure Seed, Pasture, Hay,		of low acidity	Biennial	Better adapted to pasture than white blossom sweet Clove Does not thrive on acid soils.
SWEET, White	Melilotus alba	Green Manure	48 to 84	Light to medium soils of low acidity	Biennial	Firm seed bed required. Quite tolerant of Alkali. Mcdrought resistant than alfalfa.
CRIMSON	Trifolium incarnatum	Seed, Green Manure	24 to 48	Well drained, fertile soils	Biennial	A good soil improver. Seed shatters easily and careful havesting is necessary. Makes good summer pasture.
STRAWBERRY	Trifolium fragiferum	Alkali Pastures	4 to 8	Moist alkali soils	Long-lived perennial	Most alkali tolerant of all legumes. Makes creeping growt Adapted only where moisture is abundant.
CORN, Field	Zea mays	Silege, Grain. Green Feed	72 to 96	Fertile loams or clays; well drained	Annual	Successful only as cultivated crop. Good silage. Early m turing varieties for Pacific Northwest.
TAIL DOGS-	Cynosurus cristatus	Pasture	10 to 18	Cool, moist, fertile	Long-lived perennial	
CRESTED WHEAT- GRASS	Agropyron cristatum	Seed, Pasture	16 to 30	Dry lands	Long-lived perennial	Excellent dry land grass for arid regions. A heavy se
ESCUES—						producer.
CHEWING'S	Festuca rubra fallax	Seed, Lawn, Pasture	12 to 20	Well drained, fertile benches	Long-lived perennial	Very fine leaved, makes dense bottom growth—good law grass. Quite drought resistant.
CREEPING RED	Festuca rubra	Lawn, Pasture	8 to 16	Well drained, fertile benches	Long-lived perennial	
MEADOW	Festuca elatior pratensis	Hay, Pasture	24 to 36	Moist meadowlands	Short-lived perennial	Starts in early spring and persists until late fall. Cold raistant.
TALL	Festuca elatior	Seed, Hay, Pasture	24 to 40	Wide soil adaptation	Long-lived perennial	Grows from early spring to late fall. Particularly good f
LAX, Fiber	Linum usitatissimum	Fiber	24 to 36	Fertile clay loams	Annual	summer pasture. Requires clean land—its sparse leaf growth does not che
LAX, Seed	Linum usitatissimum	Seed	18 to 30	Fertile clay loams	Annual	weeds, Grown for fiber and seed. Requires clean, weed-free land. Grown for seed only.
ALE, 1000 Headed	Brassica oleracea acephala	Winter succulence	20 to 30	Fertile loams	Biennial	Start plants in seed bed. Transplant in early June. Read
MEADOW FOXTAIL	Alopecurus pratensis	Seed Pasture	15 to 30	Low, poorly drained	Long-lived perennial	for feeding after August 15th. Winter hardy. Excellent pasture on periodically submerged lands. Se
MILLETS-				lands		hand stripped—ripens unevenly and shatters readily.
FOXTAIL	Chaetochloa italica	Hay, Seed	18 to 24	Warm, fertile loams	Annual	Best Millet for hay. Matures in 75 to 90 days. Best if c before seed matures. Plant when soil is warm.
JAPANESE	Echinochlos frumentaces	Pasture, Green Feed	30 to 48	Loams and shot clays in coastal areas	Annual	Especially adapted to the coastal fog belt. Yields large to
PROSO or HOG	Panicum miliaceum	Seed, Green Feed	18 to 36	Warm loam soils		nage of green feed. Difficult to cure for hay. Seed when soil is warm. Rapid grower—matures in 70 to
		Seed, Hay, Pasture	30 to 42	Well drained soils		days. Yields heavy seed crop. Grows well in shade. Early spring grower, Requires go
EAS, FIELD—	- accyrra giomeraca	Jeeu, may, masture		well drained soils	Long-lived perennial	drainage. Withstands dry summers.
11171	Pisum arvense	Seed, Hay, Silage	36 to 54	Clay loams and	Winter Annual	Best adapted for fall planting. Grown chiefly as a seed or
SPRING, Canada		Seed, Hay, Pasture,		bottom lands Well drained clay and		for shipment to the South. Suited to many heavy soils which are well supplied wi
	Pisum arvense	Silage	24 to 48	loam soil	Annual	moisture. A good cash crop.

BUYERS GUIDE

CROP	Botanical Name	Principal Uses	Average Height Inches	Soil Adaptations	Life	General Information
RAPE	Brassica napus	Seed, Pasture	6 to 12	Fertile loams and bottoms	Biennial	Good pasture for hogs and sheep. A dependable source of midsummer green feed in many districts.
REDTOP	Agrostis alba	Hay, Pasture	20 to 30	Wet lands	Long-lived perennial	Most widely adapted of tame grasses. Thrives on wet acid lands. Good in mixtures.
REED CANARY GRASS	Phalaris arundinacea	Seed, Hay, Pasture	48 to 80	Swampy or bottom lands	Long-lived perennial	Not adapted to mixtures. Suitable for permanent pasture on wet lands. Develops heavy seed.
ROOT CROPS—						Vocas well in
CARROTS	Daucus carota	Winter succulence		Fertile, moist bottom lands	Biennial	Yields less than other common root crops. Keeps well in storage, can be left in the ground until late in the fall.
MANGELS	Beta vulgaris	Winter succulence		Fertile, moist bottom lands	Biennial	Heavy yields, especially after liberal manuring. Keeps well in storage. Must be taken up before frost.
RUTABAGAS	Brassica campestris	Winter succulence		Fertile, moist bottom lands	Biennial	Higher yielder than mangels. Adapted to coast regions. Manure increases yield. Good for storage.
TURNIPS	Brassica rapa	Winter succulence		Fertile, moist bottom lands	Biennial	Highest yielder of all common root crops. For fall feeding. Does not keep well in storage.
RYE-GRASSES-						
DOMESTIC, Oregon	Lolium multiflorum	Seed, Hay, Pasture	18 to 36	Low lands, poor drainage	Winter Annual	A rapid growing forage crop. Good for spring pasture and seed.
ITALIAN	Lolium multiflorum	Seed, Hay, Pasture	18 to 36	Low lands, poor drainage	Biennial or Short- lived perennial	Fall planted—makes heavy forage growth and recovers rapidly after cutting.
PACEY'S	Lolium perenne	Lawn, Hay, Pasture	15 to 20	Low lands, poor drainage	Short-lived perennial	Little used on farms, but important in some sections for winter lawns.
PERENNIAL, English	Lolium perenne	Seed, Hay, Pasture	15 to 24	Low lands, poor drainage	Short-lived perennial	Longest-lived of rye grasses, and better suited to use in hay and pasture mixtures.
SORGHUM	Andropogon sorghum	Fodder, Green Feed	48 to 72	Warm, deep, fertile loams	Annual	Requires warm soil and warm growing season. Row culture necessary in Pacific Northwest.
SOYBEAN	Soja max	Seed, Hay, Green Feed	12 to 48	Warm, fertile loams	Annual	Not suited to the coast regions, but a satisfactory crop on some warm, fertile soils.
SUDAN GRASS	Andropogon sudanensis	Hay, Pasture	36 to 80	Warm clay loams	Annual	Thrives best if planted when the soil is warm. Reaches hay stage in 75 to 80 days. Good yielder.
SULLA	Hedysarum coronarium	Green Feed	20 to 30	Well drained soils	Perennial	Adaptability not yet fully determined. Plant as soon as frost danger is over.
SUNFLOWER	Helianthus annuus	Silage, Green Feed	72 to 96	Clay loams	Annual	Chiefly a silage crop. Endures more cold than corn. Thrives on the Coast. Seeded early in May.
SWEET VERNAL GRASS	Anthoxanthum odoratum	Hill-land Pasture	12 to 24	Well drained uplands	Perennial	Starts growth early in spring—makes tough sod. Thrives in the shade of brush and ferns.
TALL MEADOW OAT-GRASS	Arrhenatherum elatius	Seed, Hay, Pasture	36 to 60	Fertile, well drained uplands	Long-lived perennial	Does not endure shade. Makes good early and late pasture. Cut early for good quality hay.
TIMOTHY	Phleum pratense	Seed, Hay, Pasture	30 to 48	Fertile, moist, medium to heavy soils	Short-lived perennial	Well adapted to use in pasture and meadow mixtures. Responds well to fertilizer.
VELVET GRASS or MESOUITE	Holcus lanatus	Seed, Hay, Pasture	20 to 36	Wide adaptation	Perennial	Recommended only for soils too light for better grasses.
VETCHES—						
COMMON or GRAY	Vicia sativa	Seed, Silage, Hay, Green Feed	36 to 60	Well drained, fertile loams	Winter Annual	A spring vetch but commonly fall seeded in Pacific Northwest. Best to seed with grain for support.
HAIRY or WINTER	Vicia villosa	Green Manure, Seed, Pasture	36 to 60	Wide adaptation, needs good drainage	Winter Annual	Very winter-hardy. Seed shatters readily when ripe.
HUNGARIAN	Vicia pannonica	Green Manure, Hay, Seed	30 to 40	Medium wet, acid soils	Winter Annual	Less viny than common vetch. Greater winter-hardiness and sphis resistance, suited to poorly drained soils.
PURPLE	Vicia atropurpurea	Seed, Green Manure	24 to 48	Well drained clays or loams	Annual	Lacks winter hardiness. Often spring seeded. Makes neavy growth during cool early spring weather.
HAY MIXTURES		Hay	20 to 40	Fertile clays, loams and bottom lands	Mostly perennials	Mixtures make good farm hay. Adapted to varied soils and climates.
PASTURE MIXTURES		Pasture	6 to 30	Widely adapted	Mostly perennials	Especially desirable on new clearings and logged-off lands.

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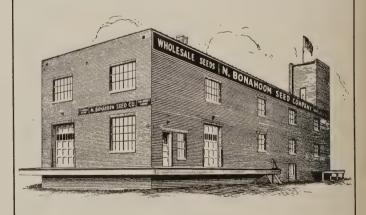
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	1935	1936	1937	1938	1939	1940	1941
Country from Which Imported	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	
Argentina		• • • • •	1,181,400	723,600	698,600	598,300	Pounds
Canada	(1)123,300	56,700	1,742,200	2,928,900	2,466,700		162,500
France	*****		(2)487,900	(3) 354,800		2,777,900	1,360,000
Germany		• • • • • •			•••••		*****
Latvia	• • • • • •	• • • • •		*****	* * * * * *		the space occasion
Other countries	200	* * * * * *	(4)222 100	(5) 500 200	*****	* * * * * *	*****
	200	*****	(4)233,100	(5) 582,300	(6) 98,300	200	200
			ALSIKE CLOVE	R			
Canada	700	26,300					
Germany			2,496,800	255,700	6,900	440,500	200
Other countries	(7) 22 600	(7) 27 000	(0) (41,000	*****	*****	*****	
Other countries	(7) 33,600	(7) 35,900	(8)641,900	(9)654,100	200	• • • • • •	*****
			WINTER RAPI	E			
China	• • • • •	*****	(€ E		*****	*****	
France	*****			*****	*****	*****	8 4
Germany			(10)1,100	*****		• • • • • •	
Great Britain	4,100	6,900	3,900	9,100	(11)7,300	(12)396,400	*****
Hungary	5,600		(13)1,879,000	209,000	1,535,100	208,800	
Japan	7,594,500	7,320,800	1,368,500	3,529,700	2,118,500	4,067,700	299,000
The Netherlands	181,500	342,100	(14)3,517,100	1,007,000	3,412,100	(15)204,500	
Poland	*****		725,500	10,900	• • • • • •	V 23-5	
Other countries	(16)21,800	(17)101,400	*****	100	(18)275,300	(12)523,700	
	(10)41,000	(17)101,100	******	100	(10/2/3,300	(12)323,700	• • • • •
			HAIRY VETCH	1			
Canada						7,600	en enter
Czechoslovakia		189,900	21,300	(19)2,134,000	1,877,200	65,900	
Denmark	• • • • •				*****	•••••	4
Germany		95,000	68,400	(20)214,100	(10)297,300	m m m	
Great Britain			*****	*****	*****	*****	*
Hungary	21,800	985,100	2,732,900	3,158,900	4,115,600	2,508,200	1 90
Latvia			-,,,,	*****	******	103,000	
Lithuania				198,000	• • • • •		
Poland	À	(C	202,100	32,400	• • • • •		
Sweden			202,100	44,000	131,400	46 900	taren
Other countries	•••••	(21)310,400		•	(22)77,200	66,800	(21)27,000
		(21)310,400	• • • • •	*****	(22)//,200	• • • • •	(21)27,000
		PE	RENNIAL RYEG	RASS			
Denmark	(23)16,100	37,200	18,700	96,800	60,100	36,600	8.100
Great Britain				· ·			
Northern Ireland	136,500	(25)220,400 105,000	(26) 303,600 18 5. 000	(27)614,600	(28) 350,400	(29) 322,600	(30) 53,700
			•	508,100	162,200	297,600	205,600
New Zealand	126,200	144,600	460,900	49,800	45,900	2,200	9,500
Other countries	800	*****	(31)4,600	(32)1,300	(33)3,500	(34)2,200	(35)16,700
	•		CRIMSON CLOV	ER			1275
Czechoslovakia		*****			* * * * * *	*****	
France			• • • • •		· · · · · · · · · · · · · · · · · · ·	(36)2,945,600	77
Germany		• • • • •	(10)15,400			(10) 230,800	
Great Britain			(10)18,000	400	(37)500	(38)55,600	
Hungary	196,700	2,105,200	5,518,800	2,248,100	4,678,000	2,159,200	
Poland		*****		*****		55,000	
The Netherlands		43,600	(39)87,300	11,000	(10)28,600		

(1) 30,000 pounds American goods returned. (2) 366,700 pounds of Argentine origin; 121,200 pounds of South African origin. (3) 91,500 pounds of unestablished origin; 44,100 pounds of South African origin. (4) 85,500 pounds from Belgium (of Argentine origin); 15,300 pounds from the Netherlands (of Hungarian origin); 44,800 pounds from South Africa; 54,500 pounds from Rumania; 33,000 pounds from Austria (of Rumanian origin). (5) 558,400 pounds from South Africa; 21,800 pounds from Hungary; 2,000 pounds from Palestine (American goods returned); 100 pounds from Poland (American goods returned). (6) 66,000 pounds from Belgium (of South African origin); 32,300 pounds from South Africa. (7) American goods returned. (8) Latvian origin. (9) 285,500 pounds from Czechoslovakia (11,000 pounds of Hungarian origin); 176,400 pounds from Sweden; 131,100 pounds from Poland (65,100 pounds of Latvian origin); 43,600 pounds from Latvia; 10,800 pounds from the Netherlands; 6,600 pounds from France; 100 pounds from New Zealand. (10) Of Hungarian origin. (11) 1,000 pounds of Dutch origin. (12) Of Rumanian origin. (13) 33,100 pounds of Polish origin. (14) 32,400 pounds of Polish origin. (15) 105,500 pounds of Hungarian origin. (16) 21,700 pounds from Belgium; 100 pounds from Canada. (17) Of Belgian origin. (18) From Switzerland (of Rumanian

origin). (19) 33,200 pounds of Hungarian origin. (20) Of Czechoslovakian origin. (21) Of Japanese origin. (22) From Yugoslavia. (23) 14,100 pounds of British origin. (24) 108,300 pounds of Northern Irish origin. (25) 170,900 pounds of Northern Irish origin. (26) 268,500 pounds of Northern Irish origin; 27,500 pounds of New Zealand origin; 2,000 pounds of Danish origin; (27) 523,600 pounds of Northern Irish origin; 35,200 pounds of New Zealand origin; 13,300 pounds of Swedish origin. (28) 178,700 pounds of Danish and Northern Irish origin; 113,600 pounds of Northern Irish origin; 21,000 pounds of Danish origin. (29) 238,700 pounds of Northern Irish origin; 77,900 pounds of Northern Irish and Danish origin. (30) 47,500 pounds of Northern Irish origin. (31) 3,800 pounds from Sweden; 500 pounds from Germany (of Swedish origin); 300 pounds from Netherlands. (32) 1,100 pounds from Sweden; 200 pounds from Australia. (33) 3,300 pounds from Sweden; 200 pounds from Australia (100 pounds of New Zealand origin). (34) From Australia (100 pounds of New Zealand origin). (35) From Australia. (36) 115,400 pounds of Hungarian origin. (37) Of French origin. (38) 32,700 pounds of Hungarian origin; 900 pounds of French origin. (39) 43,600 pounds of Hungarian origin.

(Continued on next page)

AGRICULTURAL SEEDS PERMITTED ENTRY UNDER FEDERAL SEED ACT

(Continued from preceding page)

		o	RCHARD GRA	ASS			
	1935	1936	1937	1938	1939	1940	1941
Country	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Denmark	366,600	729,100	1,819,700	219,400	1,580,600	263,800	*****
Germany			[995	8 A	100	
The Netherlands		8:				837	*****
Other countries	(1)30,500		(2)74,800	(3)1,000	(4) 146,100	(5)23,900	(6)1,000
			RED CLOVE	R			40.4.000
Canada	200	11,100	(7)2,524,700	(8)937,900	21,100	5,800	(9)1,000
Czechoslovakia			118,800	(10)493,000			
France	,		1,100,800	2,688,900	186,300	98,900	£ 2 € 1 · · · · · ·
Germany	· · · · · · · · · · · · · · · · · · ·	5° 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	- Mr	(11)131,700	• • • • • •	在聚	
Great Britain	(12)100,700	(12)35,900	(13)241,000	(14)67,200	[~19/1]		*****
The Netherlands	₩\$_2 •••••	\$3.50	(15)65,400	(16) 54,500			
Poland	7	· · · · · · · · · · · · · · · · · · ·	3,092,600	(17)1,419,300	40,700		*****
Other countries	(18)200		(19)6,736,000	(20)2,739,200	(21) 350, 200	(22) 33,100	A 36
		CA	NADA BLUEG	RASS			
Canada	129,700	155,900	120,400	180,800	13,900	25,500	45,800
Canada (11111111111111111111111111111111111							
			COMMON VET	CH			
Canada	100	en . 17 /2	. A	91	· · · · · ·	•••••	
Germany			1461	75 134 *****	((Till	*****
Great Britain		287	· /g	1,000		100	* * * * * *
Latvia	<u> </u>	50 24	. 47 %			88,000	* *****
The Netherlands				24 G			1 1 1 1 1 1 1 1 1
Poland			67,900	10,900			
Other countries	(23)8,800		(24) 258,100	(25)2,402,400	(26)1,003,700	(27)160,900	
		RYEGRASS	OTHER THA	N PERENNIAL	£.		
Argentina						281,200	•••••
Denmark		15,900	23,600	802,600	19,900		-Ma
France		3				140	¥
Great Britain			*****	(29) 163,000	(28)1,300		•••••
Northern Ireland		1,000	1,300	217,800	2,000	1,500	
The Netherlands		300		10,900	*****	• • • • •	·····
New Zealand		12,406	14,600		200	5,300	900
Other countries		300	200	(30)2,800	(31)100	(32)4,200	The state of the second
Other countries	. 000	300			•		

(1) 22,500 pounds from Great Britain (of Danish origin); 8,000 pounds from Japan. (2) 32,300 pounds from Great Britain (32,200 pounds of Danish origin); 31,000 pounds from New Zealand (9,000 pounds of Danish origin); 11,000 pounds from Hungary; 500 pounds from Australia (200 pounds of New Zealand origin). (3) 600 pounds from Great Britain (400 pounds of Swedish origin); 400 pounds from New Zealand. (4) 145,900 pounds from Great Britain (145,600 pounds of Danish origin); 100 pounds from New Zealand; 100 pounds from Sweden. (5) 22,400 pounds from Japan; 900 pounds from Great Britain; 500 pounds from New Zealand (300 pounds of Australian origin); 100 pounds from Australia (of New Zealand origin). (6) From New Zealand. (7) 200 pounds of New Zealand origin. (8) 7,500 pounds mixture of Canadian origin and American origin; 200 pounds of European origin. (9) 800 pounds American goods returned. (10) 207,800 pounds of Rumanian origin. (11) 67,500 pounds of Hungarian origin; 30,800 pounds of Lithuanian origin; 22,400 pounds of Czechoslovakian origin; 11,000 pounds of Latvian origin. (12) American goods returned. (13) 178,700 pounds of Chilean origin; 39,800 pounds of Polish origin; 22,400 pounds of Argentine origin. (14) 33,600 pounds of Hungarian origin; 33,600 pounds of Chilean origin. (15) Of Hungarian origin. (16) 22,000 pounds of French origin. (17) 2,900 pounds American goods returned (18) Of Danish origin. (19) 3,967,700 pounds from Hungary; 1,191,100 pounds from Rumania; 988,800 pounds from Latvia; 312,300 pounds from Chile; 166,400 pounds from Austria (of Polish origin); 66,108 pounds from Belgium (44,100 pounds of Chilean origin; 22,000 pounds of Polish origin); 43,600 pounds from New Zealand. (20) 1,328,000 pounds from Rumania; 887.100 pounds from Hungary (66,000 pounds of Rumanian origin); 372,700 pounds from Chile; 98,100 pounds from Latvia; 43,600 pounds from Austria (21,800 pounds of Polish origin; 21,800 pounds of Lithuanian origin); 9,700 pounds from Denmark (of Lithuanian origin). (21) 307,200 pounds from Rumania, 42,700 pounds from Hungary; 200 pounds from New Zealand; 100 pounds from Sweden. (22), 33,000 pounds from Rumania; 100 pounds from New Zealand. (23) Of Belgian origin. (24) 190,000 pounds from Lithuania; 68,100 pounds from Hungary. (25) 2,120,800 pounds from Hungary; 275,000 pounds from Lithuania; 6,600 pounds from Sweden. (26) 934,000 pounds from Hungary; 69,200 pounds from Sweden; 500 pounds from New Zealand. (27) Of Rumanian origin. (28) Of Northern Irish origin. (29) 161,900 pounds of Northern Irish origin. (30) 2,400 pounds from Bermuda (American goods returned); 400 pounds from Australia. (31) From Australia (of New Zealand origin). (32) From Australia (100 pounds of New Zealand origin).

(Continued on next page)

AGRICULTURAL SEEDS PERMITTED ENTRY UNDER FEDERAL SEED ACT

(Continued from preceding page)

WHITE CLOVER

	1935	1936	1937	1938	1939	1940	1941
Country	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Czechoslovakia		10,800	A	285,100	327,800		J
Denmark	100	(1)1,100	\$ 94	8,500	3,700		E 7
France					(1)32,700		
Germany	(2)234,900	(3)384,500	(4)220,200	(5)97,300	(6)2,200		
Great Britain	(7)20,000	(8)35,400	(9)54,000	(10)202,100	(11)106,200	17,700	· Æ
The Netherlands		10,800	21,700	49,000	(6)17,500 5		\$4
New Zealand			5,800	7,700	5,100	43,200	76,200
Poland	841,000	1,015,800	1,463,000	1,205,800	1,448,200	297,100	ET
Other countries	(12)2,000	(13)91,600	(14)203,200	(15)412,500	(16)441,500	(17)393,900	(18)4,800

FOXTAIL MILLET

Argentina	5	<u> </u>	24 2	13,300	e divided a	,	200 mg
Canada	76,300	53,600	26,000				41,200
China	4,511,900	250,500					
Germany	(19)65,500	j & 51					
Hungary	812,300		(20)273,000		150 5		
Manchuria	5,288,900		459,400				4 S
Other Countries							(21)100

T	II	Æ.	0	T	H	Y

Canada 2,410,200	700	105,100	2,700	700	16,000	700
Denmark (22) 68,400						
Finland						
Germany (23)350,300					1 1 2	
Great Britain (24)713,300	100	100	1,100	700	200	7 FO 200
Latvia					•••••	
Poland 459,200						
Sweden (25)406,400						
Other countries (26)20,900) Fig	77 · · · · · · ·	7	1 1 1 0	· · · · · ·	w

(1) Of Polish origin. (2) 209,200 pounds of Polish origin. (3) 300,700 pounds of Polish origin; 81,600 pounds of Hungarian origin. (4) 209,100 pounds of Polish origin. (5) 75,300 pounds of Polish origin; 22,000 pounds of Czechoslovakian origin. (6) Of Czechoslovakian origin. (7) 4,200 pounds of Polish origin. (8) 700 pounds of Polish origin. (9) 31,100 pounds of Polish origin. (10) 112,100 pounds of Polish origin; 17,100 pounds of Czechoslovakian origin; 1,300 pounds of New Zealand origin; 1,100 pounds of Hungarian origin. (11) 53,000 pounds of Polish origin; 12,500 pounds of Hungarian origin; 3,800 pounds of Dutch origin. (12) 1,100 pounds from Canada (of Polish origin); 700 pounds from Australia; 200 pounds from Italy. (13) 14,200 pounds of Polish origin; 72,400 pounds from Hungary; 5,000 pounds from Japan. (14) 96,600 pounds from Hungary; 32,900 pounds from Australia (of Czechoslovakian origin); 31,900 pounds from Italy; 26,500 pounds from Canada (25,000 pounds of Italian origin); 15,200 pounds from Belgium (of Polish origin); 100 pounds from Australia

tof New Zealand origin). (15) 393,600 pounds from Hungary; 13,200 pounds from Italy; 5,300 pounds from Australia (of Czechoslovakian origin); 400 pounds from Australia. (16) 428,900 pounds from Hungary; 12,600 pounds from Italy. (17) 384,300 pounds from Hungary; 7,500 pounds from Japan; 1,500 pounds from Canada (American goods returned); 600 pounds from Australia. (18) 4,700 pounds from Hungary; 100 pounds from Canada. (19) Of Hungarian origin. (20) 87,200 pounds of Rumanian origin. (21) From Australia. (22) 39,600 pounds of Latvian origin; 13,400 pounds of Lithuanian origin. (23) 135,700 pounds of Swedish origin; 50,800 pounds of Polish origin; 22,100 pounds of Czechoslovakian origin; 22,000 pounds of Finnish origin; 277,000 pounds of Latvian origin. (24) 405,700 pounds of Finnish origin; 277,000 pounds of Swedish origin; 12,700 pounds of Polish origin. (25) 76,600 pounds of Finnish origin. (26) 10,900 pounds from the Netherlands; 10,000 pounds from Japan.

(Continued on next page)

IMPORTS OF FIVE KINDS OF AGRICULTURAL SEEDS SUBJECT TO FEDERAL SEED ACT. EFFECTIVE FEBRUARY 5, 1940—BY COUNTRIES, 1935-1941

Year Ended June 30

BE	INI	GI	RA	SS
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Country from Which Imported Canada Germany Great Britain The Netherlands New Zealand Other countries Total	1935 Pounds (1)1,000 1,500 100 3,400 5,300	1936 Pounds 400 3,800 (2)2,300 7,300 13,400 (4)2,200 29,400	1937 Pounds 200 100 16,000 5,400 21,700	1938 Pounds 400 (3)900 18,200 3,200 (5)600 23,300	1939 Pounds 2,200 1,000 21,200 111,600 136,000	9,000 146,000	1941 Pounds 600 16,000 16,600
		C	RESTED DOGTA	IL			
Great Britain Northern Ireland The Netherlands New Zealand Other countries Total	(6)200 500 11,300 12,000	(7)3,500 4,400 1,300 (10)10,000 —————————————————————————————————	2,500 300 9,900 	(8)3,600 3,100 . 1,400 24,500	(9)800 1,100 100 2,000	(6)3,100 8,600 200 2,600 	(6)200 5,600 5,800
		Cı	HEWINGS FESC	UE			
Great Britain	(11) 69,700 685,400 755,100	(11)22,700 680,100 702,800	(11) 15,100 1,116,200 (4) 300 1,131,600	(11)24,500 1,154,400 	(12)55,600 830,300 885,900	1,052,300	1,530,600
			OTHER FESCU	E			
Denmark Germany Great Britain The Netherlands Other countries Total	51,000 (14)100 300 51,400	50,000 (15)13,000 (18)14,100 77,100	97,100 (1)5,500 11,500 (4)200 114,300	2,100 107,500 (16)1,700 74,900 (20)3,200 ———————————————————————————————————	25,000 (13)113,100 (17)71,200 (19)70,000 (21)52,200 ——————————————————————————————————	1,300 300 56,500 (22)77,300 135,400	(23)10,000 —————————————————————————————————
		R	OUGH BLUEGRA	ASS			
Denmark	274,100 (24)15,800 2,200 292,100	466,600	391,600 (25)85,400 600 477,600	657,400 (26)133,800 (28)6,600 	648,400 (27)61,600 710,000	856,900 400 857,300	(29)1,100 1,600

(1) Of German origin. (2) 2,200 pounds of New Zealand origin. (3) 500 pounds of German origin. (4) Of Australian origin. (5) Of Danish origin. (6) Of Northern Irish origin. (7) 2,200 pounds of Northern Irish origin. (8) 1,100 pounds of Northern Irish origin. (9) 600 pounds of Northern Irish origin. (10) Of Canadian origin. (11) Of New Zealand origin. (12) 55,400 pounds of New Zealand origin. (13) 6,600 pounds of Hungarian origin. (14) Of Dutch origin. (15) 6,700 pounds of New Zealand origin; 5,900 pounds of German origin. (16) 1,100 pounds of German origin. (17) 27,700 pounds of German origin; 18,300 pounds of Hungarian origin; 11,000 pounds of New Zealand origin; 4,400 pounds of

Dutch origin. (18) 300 pounds of German origin. (19) 10,800 pounds of German origin. (20) 1,600 pounds of Canadian origin; 1,600 pounds of Hungarian origin. (21) 41,600 pounds from Hungary; 8,400 pounds from Canada (2,200 pounds of New Zealand origin); 2,200 pounds from Czechoslovakia. (22) 71,600 pounds from Hungary; 5,700 pounds from Canada. (23) 5,500 pounds of Canadian origin; 4,500 pounds of Hungarian origin; (24) 15,500 pounds of Danish origin. (25) 80,800 pounds of Danish origin; 200 pounds of Polish origin. (26) 132,200 pounds of Danish origin. (27) 56,700 pounds of Danish origin. (28) 5,400 pounds of Danish origin. (29) From Canada of Danish origin.

SUGAR BEET SEED IMPORTS BY COUNTRIES, 1924-1940

Compiled from Foreign Commerce and Navigation of the United States.

Country from which imported	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940
	1,000	1,000		1,000	1,000	1,000	1,600	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1.000		1,000
Austria	pounds 20	pounds		pounds	pounds	pounds	pounds	pounds		pounds	pounds	nounds	pounds			1,000 pounds	
Canada	147	144	232	355	160	476	0	0	0	0	0	0	0	0	0	0	0
Czechoslovakia	0	0	33	410	1.351	1,719	66 1,538	88	1	2	0	0	66	0	4	0	2
Denmark	919	713	846	635	369	300	594	869 893	2,593 1,355	2,692 1.754	392 870	598	882	3,052	210	66	0
France	27	69	102	0	0	66	1	0	0	1,734	2	467 0	391	662	427	1,123	217
Germany	6,306	10,660	8,700	11,583	10 620	10.004	44 505			·		v	· ·	v	U	U	V
Netherlands	3,350	469	226	11,303	10,630 75	12,651	11,795	11,575	16,022	14,946	12 924	9,392	8,517	6,869	3,400	3,707	0
Poland and Dan-				110	75	39	5	38	67	59	∜54	249	29	355	6	1,667	12
Soviet Russia in	269	414	318	228	374	215	464	450	873	795	985	596	897	2,043	598	734	0
Asia	0	0	ю	40						• • • •	703	370	071	2,023	770	/ / 4	U
	· ·	V	M	42													0
Soviet Russia in	41	0	0	2	-58	34	3	1	0	0	0				^		0
Europe United Kingdom	2					1		^	U	U	U	46	66	2	0	0	0
Other Countries	3	3	0 333	3	6	3	6	4	3	29	29	1	2	34	1	10	0
-			333		0	0	0	44	0	0	1	0	110	0	28	8945	549
Total	11,082	12,472	10,790	13,379	13,023	15,503	14,471	13,962	20,913	20,277	15,756	11.349	10,960	13.017	4.654	8,243	780
*Less than 500 pounds. *7,936 pounds from Italy. *943,372 pounds from Italy.																	

TIMOTHY SEED EXPORTS FROM THE UNITED STATES, BY COUNTRIES OF DESTINATION 1928-1940

Compiled from Foreign Commerce and Navigation of the United States.

				- 710111 - 01	- Commi	ere and t	uviguison	oj ine Uni	tea States.				
Country to which exported	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Belgium	22,400	11,000	28,600	130,026	0	0	0	48,600	77.318	132.628	138,002	40,454	0
Canada	8,725,885	6,342,738		6,324,495	8,565,213	3,191,510	3,291,045	190,483	2,342,742	411.247		5,307,717	6.072.062
Denmark	581,150	273,930			38,599	0	0	18.500	0	0	0		0
France	105,860	24,449	7,516	197,542	45,563	1,228	0	201,113	98,586	177,129	175.570	154.120	270,764
Germany	829,100	219,356	345,519	496,620	210,799	35,088	0	173,258	0	82,475		1,732,902	0
I-I-I-E- OL I	42 500	444.040								,-,-		-,,	
Irish Free State.	13,528	111,042	58,091	25,856	37,257	22,440	0	35,945	108,272	168,919	233,881	170,383	114,894
Italy	2,333	2,210	44,200	2,210	1,134	0	0	4,400	2,200	0	0	17,600	2,200
Japan	9,058	15,184	20,244	27,514	37,887	15,000	6,046	9,981	0	9,000	37,943	0	0
Netherlands	116,275	65,193	88,994	166,321	51,599	65,036	0	171,780	90,468	169,932	327,151	230,679	75,313
New Zealand	353 970	294,017	191,356	191,138	218,693	259,238	114,215	472,076	184,321	296,437	233,240	275,365	312,120
Newfoundland &	50 500	24 800	44.000										
Labrador	59,522	31,700	44,200	47,008	34,650	48,193	42,840	19,040	25,225	55,525	48,683	54,470	84,526
Norway	327,747	241,648	269,917	0	0	0	0	0	0	0	0	0	0
Switzerland	8,800 972,712	1 522 222	7,500	2,646	60,500	0	11,008	94,785	59,730	. 0	15,676		37,775
Other Countries		1,522,323	1,985,296	2,533,593	1,581,728	1,353,708	233,066	1,973,724	1,013,444	1,727,538		2,338,565	
Other Countries	92.058	40,232	138,406	0	7,040	² 17,806	0	11,031	300	940	48,044	1,110	6,779
Total	12,220,398	9,195,022	15,828,571	10,476,344	10,890,662	5,009,247	3,698,220	3,424,716	4,002,606	3,231,770	4.491.549	10.406.336	9,584,270
												,	

132,000 pounds to Hungary. 215,266 pounds to Austria.

RED CLOVER SEED EXPORTS FROM THE UNITED STATES, BY COUNTRIES OF DESTINATION, 1928-1940

Compiled from Foreign Commerce and Navigation of the United States.

Country to which exported	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Australia	18,074	0	0	0	0	0	0	0	0	0	0	0	11,480
Belgium	0	16,309	0	0	0	234,325	172,633	Ð	2,200	0	0	0	0
Canada	211,535	58,051	170,688	488,656	87,333	805	121,229	6.232	9.341	79.475	0	881	10,575
Denmark	28,773	44,331	11,338	0	0	11,000	16,314	6.785	6.770	4,521	0	0	0
France	2,996	8,860	21,701	0	0	976,450	235,684	11,000	0	33,762	0	0	O
Germany	164,188	117,005	206,678	49,103	76,172	230,330	120,672	20,537	10,975	15,458	0	0	0
Netherlands	13.429	63,628	51,609	0	0	2,500	. 0	20.780	22,380	85,207	33,000	1.000	0
New Zealand	9,000	0	114	1.142	20.340	11,200	175.682	6,990	2,427	0	11,160	1,120	0
United Kingdom.	2,313	203,133	55.150	116,065	100.545	1,420,162	195.514	184,293	34,986	232,088	135.967	220.488	681.079
Other Countries	5,430	112,218	² 18,194	15,338	13,509	³ 138,666	53,892	454,820	436,192	12,678	2,645	760	24,358
Total	455,738	523,535	535,472	670,304	297,899	3,025,438	1,091,620	311,437	125,271	463,189	182,772	224,249	727,492

11,000 pounds to Poland and Danzig. 217,603 pounds to Japan. 283,616 pounds to Japan; 22,000 pounds to Austria, and 33,000 pounds to Italy. 451,823 pounds to Japan. 432,050 pounds to Japan.

WHOLESALE SELLING PRICES FOR BEST GRADES OF FIELD SEEDS AT IMPORTANT MARKETS, 1929-1941

Compiled from office records, by the Agricultural Statistics Division, Agricultural Marketing Service, U. S. Department of Agriculture. (Per 100 pounds, except for last 8 kinds where prices per bushel are given.)

Kind of Seed	Market	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941
		D 11	Dollars											
		Dollars			13.65	13.60	13.00	19.80	15.20	29,60	34.00	24.75	22.75	19.0.1
Alfalfa	Kansas City	26.05	24.80	22.55	16.35	11.40	14.75	23.65	20.90	38.25	40.00	18.00	18.70	14.00
Red clover	Chicago	33.65	21.35			11.95	16.25	28.65	23.30	25.95	33.00	16.25	23.00	14.50
Alsike clover	Chicago	34.65	19.90	23.50	15.05	4.50	6.50	10.40	6.25	17.00	11.35	7.75	6.90	6.60
	Minneapolis	8.50	8.00	9.20	5.50	27.85	30.50	27.50	27.10	30.10	35.00	42.50	62.50	72.00
White cloves	Chicago	28.30	27.50	39.05	40.50	9,20	9,20	12.05	7.55	7.80	10.35	12.70	11.60	10.85
Crimson clover	Baltimore	12.00	11.50	9.00	6.75		5.00	10.50	5,65	15,60	5.45	3.50	5.55	5.40
Lespedeza	Louisville	20.45	14.35	14.70	8.10	7.50		22.80	3.65	6.95	4.00	4.00	6.35	5.25
Timothy	Chicago	6.55	8.05	10.55	4.30	3.25	8.50	13.95	9.35	21.50	11.50	11.15	11.35	10.25
Redtop	Chicago	14.60	16.50	24.20	8.70	5.30	8.40		12.30	18.35	10.65	10.50	19.50	18.50
Kentucky bluegrass	Kansas City	31.30	20.00	35.35	13.45	8.35	13.40	23.20	12.50	18.30	16.15	17.50	16.90	26.00
Orchard grass	Louisville	16.70	17.15	16.05	7.35	7.30	9.70	16.20		10.50	8.85	12.00	14.00	16.00
Meadow fescue	Kansas City	16.00	10.00	10.75	5.50	4.15	7.05	18.00	7.00	31.80	39.75	60.00	51.00	32,90
Chewings fescue	Baltimore	29.75	27.00	36.00	22.65	11.75	19.35	55.45	41.90	29.00	26.10	35.00	45.00	45.00
Sheep's fescue	Baltimore	25.00	22.00	27.50	14.90	10.95	14.85	52.45	30.25		58.10	55.00	59.00	10.00
German mixed bent	Baltimore	50.00	55.00	85.00	71.60	62.00	72.15	85.90	52.70	45.00	22.90	24.60	23.70	19.70
Bermuda grass		32.00	33.80	31.35	16.25	12.10	10.55	20.40	23.45	26.75		17.05	16,60	19.00
Bromus inermis	Minneapolis	12.00	18.50	20.00	14.00	8.00	16.20	26.00	13.45	26.00	19.45	7.80		
Italian ryegrass	Baltimore		9.25	9.50	8.85	7.10				7.10	7.50	11.00	11.00	12.40
Perennial ryegrass	Baltimore	8.40	8.75	10.00	8.85	7.10	11.40	11.90	10.20	11.30	9.00		6.00	5.00
Domestic ryegrass	Baltimore			5.00	3.45	3.70	6.70	5.20	4.50	7.10	7.55	6.25	2.60	3.25
German millet	Kansas City	3.45	3.45	3.70	1.80	1.55	3.35	7.00	2.70	4.90	3.25	1.85	3.75	4.25
Siberian millet	Minneapolis	2.75	3.10	3.40	2.60	2.40	3.65	6.10	2.75	3.40	2.35	2.50		3.50
Hungarian millet	Chicago		4.10	3.50	2.25	1.95	2.90	6.05	3.00	5.00	3.50	3.15	4.50	5.00
Japanese millet	Chicago	5.25	4.20	3.70	3.20	2.90	3.00	6.00	2.50	3.25	3.00	3.00	5.45	
Broomcorn millet	Minneapolis		3.00	2.40	1.95	1.80	2.20	4.30	2.25	2.75	2.30	2.50	2.15	1.65
Amber sorgo	Kaneae City	2.30	3.45	2.80	1.20	1.15	1.60	5.65	2.70	4.00	1.85	1.70	2.75	
Orange sorgo	Kansas City	2.30	3.30	2.80	1.25	1.20	2.10	5.40	2.70	3.95	1.80	1.60	2.75	2.70
Sudan grass	Kaneae City		5.40	7,40	1.75	2.05	5.50	12.30	3.15	4.60	3.25	3.55	3.50	3.85
Rape	Baltimore	6.65	5.70	4.30	4.15	3.75	4.30	3.60	4.00	5.95	6.55	6.35	7.30	16.50
Hairy vetch	Baltimore		9.00	8.45	7.50	7.00	8.75	11.50	9.75	8.85	8.50	8.20	10.80	10.00
Common vetch	Baltimore		4.80	4.50	4,00	3.50	5.00	3.50	3.75	5.00	4.65	5.00	6.75	6.00
Canada field peas			5.25	3.85	4.80	4.50	3.85	3.85	4.00	5.15	5.35	4.85	5.85	5.20
Kafir	Voncos City		2.05	1.75	1.15	1.10	1.40	3.20	2.00	3.15	1.75	1.55	2.30	2.30
CowpeasBu	Poltimoro		3.30	2.70	1.05	.95	2,50	2.50	2.30	3.00	2.20	2.40	1.90	2.25
	Louisville		2.25	2.15	.75	.95	1.45	1.60	1.35	2.25	1.35	1.15	1.50	1.50
Soybeans	Chicago	1.80	1.75	1.65	1,20	.85	1.00	1.75	2.95	2.50	1.50	1.25	1.40	1.35
Seed corn"	Minneapolis	1.60	1.65	1.15	1.00	.90	1.25	1.50	1.65	2.00	1.35	1.25	1.40	1.30
Seed wheat			.80	.65	.55	.45	.65	.90	.70	.90	.75	.65	.75	.75
Seed oats	Minneapolis		.80	.75	.75	.65	.95	1.45	1.00	1.70	1.15	.90	.90	.90
Seed barley	Minneapolis		1.50	1.05	.90	.80	1.35	1.50	1.25	1.45	1.30	1.10	1.25	1.25
Seed rye	Minneapolis	1.40	1.50	1.30	1,20		1.20	1.15	1.85	1.75	1.35	1.10	1.10	1 1.00
Seed buckwheat "	'Minneapons	. 1.40	. 1.30	1.30	1.20	• > 3	1.20							

ALFALFA SEED EXPORTS FROM THE UNITED STATES, BY MONTHS 1923-1941

Compiled from Monthly Summary of Foreign Commerce of the United States.

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1923 1924 1925 1926 1927	Pounds 23,977 15,506 22,358 103,599 185,827	Pounds 58,591 17,649 45,910 24,898 154,543	Pounds 28,267 12,557 25,369 17,704 362,841	Pounds 17,114 8,248 7,806 27,698 16,169	Pounds 22,524 8,945 2,701 14,282 12,661	Pounds 2,027 3,050 1,990 2,962 6,485	Pounds 12,313 2,897 48,669 7,880 15,125	Pounds 27,317 21,226 181,018 18,330 152,410	Pounds 103,565 56,417 141,241 92,222 87,829	Pounds 68,459 53,258 245,629 203,393 49,028	Pounds 24,152 146,131 101,656 77,414 128,762	Pounds 11,040 17,385 508,645 151,134 221,794	Pounds 399,346 363,269 1,332,992 741,516 1,393,474
1928 1929 1930 1931 1932	85,370 95,584 260,630 42,943 7,319	53,194 9,577 172,480 26,267 72,909	54,674 67,602 125,307 18,270 6,366	59,622 141,753 13,494 5,422 3,015	24,861 6,407 2,766 371 1,550	9,280 1,023 745 5,170 2,150	9,975 14,817 3,075 3,324 5,078	119,021 61,693 114,711 7,410 12,613	187,319 194,960 44,509 11,404 60,828	65,102 150,950 48,394 6,190 40,501	38,253 23,111 44,407 8,782 604,391	75,249 58,353 2,447 82,491 747,921	781,920 825,830 832,965 218,044 1,564.641
1933 1934 1935 1936 1937 1938 1939 1940	175,858 311,699 24,431 58,360 41,341 90,371 18,823 45,677 332,217	32,587 212,760 18,427 14,259 2,455,581 40,403 10,611 19,960 109,489	33,993 18,986 26,679 19,995 20,666 14,962 14,500 18,968 97,365	1,635 9,135 13,549 4,620 10,401 3,850 7,608 17,570 9,488	8,478 20,166 7,234 12,313 5,611 12,770 3,550 11,975 27,186	1,780 3,100 3,603 1,069 1,450 1,510 570 7,225 17,985	8,114 54,736 7,475 11,116 7,969 1,050 2,420 16,156 25,336	101,112 105,848 49,234 15,418 58,123 16,955 14,790 63,073 35,396	32,783 71,157 93,350 85,329 152,685 74,272 20,881 67,883	115,725 67,096 144,384 34,216 114,301 23,065 149,979 114,129	189,577 57,033 81,481 10,539 156,307 53,310 86,099 72,131	497,154 27,185 39,150 16,339 73,825 22,370 119,362 30,473	1,198,796 958,901 508,997 283,573 3,098,260 354,888 449,193 485,220 1654,462

1-8 months ended August.

IMPORTS AND PRICES OF VEGETABLE SEEDS

		Comp	uled from figure	es published by	Department of	oj Commerce							
	Import-	Imports-Calendar Years					Average Prices						
			imports care.	ndur * caro			1937	1938	1939	1940	*1941		
	Duty	1027	1070	1939	1940	1941*	Per	Per	Per	Per	Per		
Kind of Seed	Per lb.	1937	1938					Lb.	Ĺb.	Lb.	Lb.		
	Cents	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lb.				DD.		
Beet, garden	. 3	285,256	231,286	115,913	65,764		\$.128	\$.127	\$.126	\$ 128			
Beet, mangel		323,250	187,784	128,243	81,369	·	. 082	.078	.076	.093	21111		
		429,099	472,318	334.074	94,141	48,333	.376	. 335	. 363	. 362	\$.643		
Cabbage		13,559	19,211	6,496	5,388		. 294	. 238	.346	. 350			
Carrot		15,191	20,234	12,681	9,479		5.395	3.878	6.838	7.133			
Cauliflower	, 25				21,702		. 154	.144	.136	.159			
Kale	, 3	54,023	57,103	49,274					.363	.353			
Kohlrabi	. 8	23,379	19,653	8,554	10,414	2	. 394	. 402			612		
Onion		210,000	132,041	104,947	131,704	62,367	. 553	. 576	.557	. 596	.642		
Parsley		82,357	27,778	6,819	18,552		. 055	, 094	. 151	.099			
		7,024	7,093	7,350	3,085		, 150	.171	.189	. 171			
Parsnip		989	877	300	1,084	5	. 709	. 702	. 687	. 326			
Pepper			675,968	662,777	210,457		.119	. 123	.124	.137			
Radish		797,216			35,304		. 112	.105	.095	.097			
Rutabaga	. 3	47,548	47,434	40,761		20.000	.074	.075	.072	.081	,122		
Spinach	. 1/2	3,460,240	2,559,563	2,883,233	550,113	20,080					.106		
Turnin	3	875,141	495,838	442,979	360,606	63,477	. 084	.092	. 090	. 093	.100		
*Eight months ending Aus	gust, 1941.	All prices F.O.1	port of original	n and not incl	uding duty.								

SEED TRADE

FLOWER SEED GERMINATIONS BY ARTIFICIAL MEANS!

Compiled by

H. E. VEGIARD, Seed Analyst for H. G. HASTINGS CO., Atlanta, Ga.

High—Germination found over a four year period using the average of each year's highest test.

Standard—The four year average at which new flower seed should germinate.

Botanical Name—Taken from Bailey's Encyclopedia and Gray's Manual. Open to comment. Common Name—The name of variety found on the average seed packet.

COMMON NAME

BOTANICAL NAME

Kind	Variety	High	Sta	in.	IL NAME
Ageratum	Dwarf Blue	87%		Ageratum	maniaa
Alyssum		87	85	Lobulana	mexicanum maritima
Alyssum	Yellow	65	60	Alvssum	saxatile
Anemone	Wind flower	85	70	Anemone	ouraciic
Arabis	White	76	70	Arabis	alpina
Armeria Aster	Sea Pink	80	70	Armeria	maritima
Aster	Vick's Branching Crego	82	70		
Baby's Breath	Annual	90 95	80 80	Gypsophila	alamana
Baby's Breath	Perennial	95	80	Gypsophila	elegans paniculata
Bachelor Button		85	75	Centaurea	cvanus
Balsam		89	80	Impatiens	c y carros
Blue Lace Flower	¥7 11	82	78	Didiscus	coeruleus
Border of Gold Calendula	Yellow Dw. Tagetes	93	80	Tagetes	signata pumila
Calendula	Orange Radio	85 87	75	Calendula	officinalis
Calliopsis	Natio	87	75 70	Coreopsis	tinctoria
Candytuft		86	80	Iberis	umbellata
Canterbury Bells	Giant	85	80	Campanula	medium
Carnation	Chabauds	83	80	Dianthus	caryophilus
Chrysanthemum		75	75	Chrysanthemum	
Clarkia	5	83	80	Clarkia	elegans
Cockscomb	Dwarf	95	80	Celosia	cristata
Columbine	Plume	80	80	Celosia	plumosa
Coreopsis		68	65	Aquilegia	
Cosmos	Simple and Deviate	68	60	Coreopsis	lanceolata
Cosmos	Single and Double Orange Flare	86	80	Cosmos	bipinnatus
Cardinal Climber	Orange Plate	85 88	80 85	Cosmos	sulphineus
		00	00	Ipomea	quamoclit sloteri
African Daisy	Orange	83	65	Dimorphotheca	aurantiaca
African Daisy	Colors			Arctotis	breviscapa
English Daisy	Double	88	85	Bellis	
Persian Daisy		80	70	Pyrethrum	
Swan River Daisy		94	85	Brachycome	iberidifolia
Dianthus	Dwarf Pink	88	80	Dianthus	caesius
Foxglove	T. I' DI	85	80	Digitalis	
Forget-me-not Four O'Clock	Indigo Blue	75	70	Myosotis	alpestris
Gaillardia	Marvel of Peru Lorenziana	85	80	Mirabilis	jalapa
Godetia	Whitneyi	80	65	Gaillardia	aristata
Gourds	Ornamental	85	80	Oenothera	
Heliotrope	Ornamentar	52	40	Heliotropium	peruvianum
Hollyhock	Double Chaters	75	70	Althaea	rosea
Hop Vine	Japanese	• •	• 0	Humulus	japonicus
Iberis	Violet Rose	85	75	Iberis	gibraltarica
Kudzu Vine		75	75	Pueraria	thumbergiana
Larkspur	Annual Pink	70	65	Delphinum	agacis
Larkspur	Annual Mixed	78	70	Delphinum	agacis
Delphinium	Perennial	86	70	Delphinum	
Lobelia	Crystal Palace	88	75	Lobelia	erinus
Love in the Mist Lupin	N.C	93	80	Nigella	damascena
Marigold	Mixed	90	75	Lupinus	,
Marigold	African Tall French Dwarf	93 93	85	Tagetes	erecta
Marigold	Harmony	93 98	85 85	Tagetes	patula
Marigold	Guinea Gold	90	85	Tagetes Tagetes	patula erecta
Mexican Fire Bush	Guinea Gold	83	70	Kochia	erecta
Mignonette		83	65	Mignonette	
Moonflower		96	85	Ipomoea	bona-nox
Morning Glory	Mammoth Japanese	90	80	Ipomoea	imperiais
Morning Glory	Heavenly Blue	92	80	Ipomoea	rubro coerulea
Mourning Bride		83	75	Scabiosa	
Nasturtium	Dwarf	85	80	Tropaeolum	minus
Nasturtium	Tall	84	80	Tropaeolum	majus
Nasturtium	Dbl. Golden Gleam	88	80	Tropaeolum	minus
Nasturtium	Glorious Gleam Hyb.	90	80	Tropaeolum	minus



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Michigan Berrien Springs

212

COMMON NAME

BOTANICAL NAME

ı	Kind	Variety		Sta	ın.	
	Nicotiana	Mixed colors	89	80	Nicotiana	affinis
	Pansy	Mixed	74	70		
	Pansy	Jet Black	80 88	70 75		
	retuna	Mixed	85	70		
	Petunia Pinks	Colors Garden	90	80	Dianthus	plumarius
	Poppy	California	85	80	Eschscholtzia	Promise
	Poppy	Iceland	65	60	Papaver	nudicule
	Poppy	Peony Flowered	90	85	Papaver	somniferum
	Poppy	Shirley	90	85	Papaver	rohocas
ı	Portulaca	Moss Rose	90	75		
ı	Salpiglossis		88	75	Salpiglossis	sinuata
ı	Salvia		62	60	Salvia	splendens
ı	Siberian Wallflower		85	80	Cherianthus Antirrhinum	allionii
ı	Snapdragon		84	70	Euphorbia	majus variegata
ı	Snow on the Mountain	Rose	85	75	Saponaria	ocymoides
ı	Soapwort Statice	Everlasting	86	80	Statice	sinuata
١	Stocks	Everiasing	88	80	Matthiola	incana
ı	Strawflower	Everlasting	92	75	Helichrysum	monstrosum
ı	Sunflower	Double German	92	90	Helianthus	decapetalus
ı	Sweet Peas	Mixed	98	90	Lathyrus	odorthus
ı	Sweet Peas	Colors	95	90	Lathyrus	odorthus
l	Sweet Peas	Perennial	80	70	Lathyrus	latifolius
ı	Sweet Sultan		91	80	Centaurea	moschata barbatus
۱	Sweet William	3.61 1	90	85 50	Dianthus	Darbatus
۱	Verbena	Mixed Colors	58 52	50 50		
١	Verbena Wallflower	English	90	80	Cheiranthus	cheiri
Ì	Wannower Wonder Bean	Eugusu	90	.85	Ricinus	levidus
١	Zinnia	Mixed	93	80	200000	
ı	Zinnia	Colors	90	80		
ı						

GLOSSARY OF FEDERAL **AGENCIES**

AAA-Agricultural Adjustment administration

AFL-American Federation of Labor.

CAA—Civil Aeronautics administration.

CAB-Civil Aeronautics board.

CCC-Civilian Conservation corps.

CCC—Commodity Credit corporation.

CEA-Commodity Exchange administration.

CIO-Congress of Industrial Organizations.

CSC-Civil Service commission.

DHC-Defense Homes corporation.

DLC-Disaster Loan corporation.

DPC-Defense Plant corporation.

DSC—Defense Supplies corporation.

ECC-Employes Compensation commission.

EHFA-Electric Home and Farm authority.

FCA-Farm Credit administration.

FCC-Federal Communications commission.

FCIC-Federal Crop Insurance corporation.

FDA—Food and Drug administration. FFMC—Federal Farm Mortgage corpo-FDA-

FHA-Federal Housing administration. FHLBB—Federal Home Loan Bank

FLA—Federal Loan agency.

FPC-Federal Power commission.

FREB-Federal Real Estate board.

FSA—Federal Security agency.

FSA-Farm Security administration. FSLIC-Federal Savings and Loan In-

surance corporation.

FTC—Federal Trade commission.

FWA—Federal Works agency.

HOLC-Home Owners' Loan corporation.

ICC-Interstate Commerce commission.

MLB-Maritime Labor board.

MRC-Metal Reserve company NACA-National Advisory Committee

for Aeronautics.

NLRB—National Labor Relations board

NMB-National Mediation board. NRA-National Recovery administra-

OCD-Office of Civilian Defense.

OEM-Office for Emergency Manage-

OFF-Office of Fact and Figures. OFLA-Office of Federal Loan admin-

istrator

OGR-Office of Government Reports. OPACS—Office of Price Administration and Civilian supply.

OPM-Office of Production Management.

OQG-Office of Quartermaster General.

PWA-Public Works administration.

REA—Rural Electrification administration

USHA-United States Housing authority.

USO—United Service organizations.

RFC—Reconstruction Finance corpora-

SEC—Securities and Exchange commission

SMA-Surplus Marketing administration.

SPAB-Supply, Priorities and Allocations board.

SSB—Social Security board.

SSS—Selective Service system.

TVA—Tennessee Valley authority.

VA-Veterans' administration.

WPA-Works Projects administration.

A. B. C. Supreme Quality-bulbs and nursery stock-American Bulb Co., Chicago, Ill.

A. B. Lyman—alfalfa seed—Peppard Seed Co., Kansas City, Mo. "A Century of Service to Plant Growers"

-F. Haubensak Sons, St. Louis, Mo. "A Hawkeye Field Means A Bumper Yield"—field seeds—Hamilton Seed &

Coal Co., Cedar Rapids, Iowa.

Acme—seeds—J. Chas. McCullough Seed

Co., Cincinnati, Ohio.

ero—field & garden seeds—Griswold Seed & Nursery Co., Lincoln, Nebr. -Funk

Always No. 1 Grade—farm seeds—Fun Bros. Seed Co., Bloomington, Ill. "American Bulbs — Superior Quality"flower bulbs-George Lawler, Tacoma,

Anchor Brand-field and garden seeds-

Arthur R. Cone, Buffalo, N. Antelope—seeds—Nebraska Seed Omaha, Nebr.

A Premium Grade that Does Not Cost a Premium-field seeds-Davenport Seed Co., Davenport, Iowa.

rco Brand—field and garden seeds-Arthur R. Cone, Buffalo, N. Y.

As good as Grow for you to sow-garden seeds-Burrell Seeds, Inc., Rocky Ford,

"Asgrow-Seeds for Garden and Lawn"

— garden seeds — Associated Seed Growers, Inc., New Haven, Conn. At Your Service Since 1896"—garden, field and flower seeds—The Page Seed Co., Greene, N. Y.

Avalon Brand—seeds—Rex D. Pearce, Moorestown, N. J.

Banner—seeds—Corneli Seed Co., St. Louis, Mo.

Barteldes—field & garden seeds—Barteldes Seed Co., Lawrence, Kan.
Beakon—"A Safe Guide to Better Crops"

field seeds-Gooding Seed Co., Gooding, Idaho.

"Bear our Name and Brand, Arco"—field and garden seeds—Arthur R. Cone, Buffalo, N. Y. eaver Brand—seeds—Sommer Bros.

Seed Co., Pekin, Ill.

Beaver—timothy seed—Steele, Briggs
Seed Co., Toronto, Ont., Canada.
Bee Hive—hardy Utah alfalfa seed—
Peppard Seed Co., Kansas City, Mo.
"Belt's Better Grasses"—The Belt Seed
Co., Inc., Baltimore, Md.
"Be Satisfied — Use Brent's Premium
Seeds"—C. S. Brent Seed Co., Lexington Ky.

ton, Ky.

-Ross Seed Co., Louisville, Ky.

"Better Seeds, Better Crops"—Ouren
Seed Co., Council Bluffs, Iowa.

Big Chief—field seeds—Northwestern
Seed Co., Keokuk, Iowa.

Blackfoot Brand—alfalfa—Idaho Grimm
Alfalfa Seed Congress Charles

Alfalfa Seed Growers Assn., Blackfoot, Idaho.

"Blizzard Belt Seeds are the Best for All Climates" — garden seeds — Burgess Seed & Plant Co., Galesburg, Mich.

Blood Tells—garden seeds—Rogers Bros. Seed Co., Chicago, Ill.

Blue Label — dahlia roots — Wayland Dahlia Gardens, Wayland, Mich.

Blumont Brand-field seeds-Blue Mountain Seed Growers Assn., La Grande, Ore.

Bow Brand-field seeds-Bowman Seed Co., Concordia, Kan.
"Bred—Not Just Grown"—garden seeds

-Associated Seed Growers, Inc., New Haven, Conn.

Brent's Premium—field and garden seeds Echo Brand—neid seeds—Purcell Seed Gladflower—flower seeds—W. Atlee Bur--C. S. Brent Seed Co., Lexington, Ky.

Jrade Marks and Slogans

Many seedsmen, as well as manufacturers, have spent years in building up a demand for their trade-marked merchandise and buyers have acquired the habit of calling for these brands. Sometimes a buyer will not remember the name of the manufacturer or seedsman who produces a certain brand. This alphabetical list of trade-marked brands should prove useful in such cases. These trade marks and slogans are printed as sent to us by seedsmen and manufacturers who advertise in this book. The publisher assumes no responsibility. For names of firms using trade marks not listed here, write us.

Seed Co., Kansas City, Mo.

"Brown's Tested Seeds—They Grow"—
garden seeds—Alfred J. Brown Seed Co., Grand Rapids, Mich. ickeye—Seeds—J. Chas.

McCullough Buckeye—Seeds—J. Seed Co., Cincinnati, Ohio.

Buist's Prize Medal—garden seeds-Robt. Buist Co., Philadelphia, Pa.

Burpeeana—seeds—W. Atlee Burpee Co., Philadelphia, Pa.

"Burpee's Seeds Grow"—W. Atlee Burpee Co., Philadelphia, Pa.

"Buy at the Source of Supply"-alfalfa seed-Lakin Seed Co., Miles City, Mont.

"California's Best Flower Seeds"--flower seeds-Wm. Macdonald Seed Co., Santa Maria, Calif.

"California's Choicest Flower Seed Since 1890"—Bodger Seeds, Ltd., El Monte, Calif.

Capitol Brand Seeds-field seeds and feeds-Capitol Fuel, Feed & Seed Co., Phoenix, Ariz.

Carlson Brand-field seeds-Roscoe J.

Carl & Son, Lansing, Mich.
Casco—field and garden seeds— Archias Seed Co., Brawley, Calif.

Cloister-lawn grass seed mixturesociated Seed Growers, Inc., New Haven, Conn.

Columbia Park—lawn grass seed—Dur-yea Seed Co., Inc., New York, N. Y.

Compass Brand-field seeds-Davenport Seed Co., Davenport, Iowa.

Condon's Sure Crop Seeds. None Better at Any Price. Condon's Seeds Satisfy -Condon Bros. Seedsmen, Rockford, Ill.

Corn Belt — field seeds — Northwestern Seed Co., Keokuk, Iowa.

Cream of the Crop-field seed, sun cured and field ripened blue grass—Peppard Seed Co., Kansas City, Mo.

"Best at any Price"—seeds—Keller Seed Crebent—lawn seed—The Chas. H. Lilly Store, Shawnee, Okla. Co., Seattle, Wash. "Better Be Safe Than Sorry"—field seeds Crescent—lawn seed—The Chas. H. Lilly Co., Seattle, Wash.

"Crosman's Famous Seeds for more than A Hundred Years"—flower, vegetable and grass seeds—Crosman Seed Co., East Rochester, N. Y.

Crystal-field seeds-Cargill, Inc., Minneapolis, Minn.

Dakota Leader Brand — field seeds-Valker-Christiansen Co., Minot, N. D. Daehnfeldt's Original Seeds — g a r d e n seeds — L. Daehnfeldt, Ltd., Odense, Denmark.

DeLuxe Brand—lawn grass seed mixture -Associated Seed Growers, Inc., New Haven, Conn.

Donley "Super Cleaned"—field and lawn seeds—J. L. Donley & Bro., Ashland, Ohio.

Duryea's Central Park—lawn grass seed -Duryea Seed Co., Inc., New York,

Eagle—alsike seed—Steele, Briggs Seed Co., Ltd., Toronto, Ont., Canada.

Co., Evansville, Ind.

Brookside—lawn grass seed—Peppard Eclipse—field seeds—Keller Seed Store, Shawnee, Okla.

Embro-popcorn-Ed F. Mangelsdorf &

Bro., Inc., St. Louis, Mo.

Emerald—field seeds—Steele, Briggs
Seed Co., Ltd., Toronto, Ont., Canada.

Emerald—lawn seeds—J. Chas. McCullough Seed Co., Cincinnati, Ohio.

Ermine—timothy seed—Steele, Briggs Seed Co., Ltd., Toronto, Ont., Canada. Estate—lawn seed—Wm. G. Scarlett &

Co., Baltimore, Md. Evergreen—farm seeds—The Chas. H. Lilly Co., Seattle, Wash.

"Every shipment backed by Hurff reputation" — vegetable seeds — Edgar F. - vegetable seeds - Edgar F. Hurff Co., Swedesboro, N. J.

Evergreen—lawn dressing—Robert
Nicholson Seed Co., Dallas, Texas.

"Everything for the Garden but the Rain"
—seeds—The J. Chas. McCullough
Seed Co., Cincinnati, Ohio.

Falcon-field seeds-Cargill, Inc., Minneapolis, Minn.

"Famous for Purity and Vitality"—garden seeds—Robert Buist Co., Philadel-

phia, Pa. Fargo Seed House—field, garden seeds, seed grain—Magill & Co., Fargo, N. D. "Farmers Know Seed That Grow"—field

and garden seeds—Arthur R. Cone, Buffalo, N. Y. Far West—field seeds—Jenks-White Seed Co., Salem, Ore.

Ferry's Seeds-field and garden seeds-Ferry-Morse Seed Co., Detroit, Mich. "Fewer—But Better Varieties"—garden

seeds-Zwaan & Van der Molen, Voorburg, Holland.

"Fine Flowerseeds for Over a Century"seeds-F. Haubensak Sons, St. Louis,

"53 Years' Faithful Service"—field seeds E. F. Sanguinetti, Yuma, Ariz.

Flawn—lawn seed mixture, especially for the South—F. H. Woodruff & Sons, Inc., Milford, Conn.
Floradale—seeds—W. Atlee Burpee Co.,

Philadelphia, Pa.

"Flower Seeds of Proven Quality"-seeds -Buckman, Denholm & Holden Seed Co., Lompoc, Calif.

"For the Good of the Country"-field and grass seed-Seaboard Seed Co., Philadelphia, Pa.

Fordhook-seeds-W. Atlee Burpee Co.,

Philadelphia, Pa.

"For Land Sake Buy Land O'Lakes Seeds"—Land O'Lakes Creameries, Inc.,

Minneapolis, Minn.

"Forty Years the Best"—field seeds—
Ross Seed Co., Louisville, Ky.

Funk Farms—field seeds—Funk Bros.

Seed Co., Bloomington, Ill. Funk's—soybean feeds—Funk Bros. Seed

Co., Bloomington, Ill. G Hybrids—Funk Bros. Seed Co., Bloom-

ington, Ill.

Gilbert's Dependable Seed-field and garden seed-D. H. Gilbert Seed Co., Inc., Monticello, Fla.

Gilt Edge Brand-seeds-National Seed Co., Louisville, Ky.

pee Co., Philadelphia, Pa.

Globe Brand-specialty feeds and bird "Known for Reliability Since 1888-Old seeds-The Albert Dickinson Co., Chicago, Ill.

Gold - field seeds - The Ackerman Co.,

Lima, Ohio.

Goldinhart—seeds—W. Atlee Burpee Co.,

Philadelphia, Pa.

Gold Medal-field seeds-the sure growing kind-Louisville Seed Co., Louisville, Ky. Gold Standard—red top

Schultz Seed Co., Dieterich, Ill.

Gramercy Park-lawn grass seed-Dur-

yea Seed Co., Inc., New York, N. Y. Greenblade Brand—lawn grass seed mix-ture—Associated Seed Growers, Inc.,

New Haven, Conn. Green Mantle Brand—lawn grass seed mixture - Associated Seed Growers, Inc., New Haven, Conn.

Greene Park-lawn grass seed-The Page

Seed Co., Greene, N. Y. Greenway—lawn seed—Wm. G. Scarlett & Co., Baltimore, Md.

Gro-Green Brand-lawn grass seed mix-

ture—Associated Seed Growers, Inc., New Haven, Conn.
"Growers of California and Colorado
Seeds"—vine seeds—Lawrence Robin-

son & Sons, Modesto, Calif. Growers of "Merit" Flower Seeds—Wal-

ler-Franklin Seed Co., Guadalupe, Calif. "Grown Where Dahlias Grow Best"— dahlias — Wayland Dahlia Gardens,

Wayland, Mich. "Hardy High Altitude Grown Seeds"— garden and vine seeds—Burrell Seeds,

Īnc., Rocky Ford, Colo.

Hart's—garden and flower seeds—Chas. C. Hart Seed Co., Wethersfield, Conn. Harvest—field seeds—Wm. G. Scarlett & Co., Baltimore, Md.

Hawk—alsike seed—Steele, Briggs Seed Co., Ltd., Toronto, Ont., Canada.

Hawkeye—field seeds—Hamilton Seed & Coal Company, Cedar Rapids, Iowa.

Haymaker—field seed—Peppard Seed

Čo., Kansas City, Mo.

"Heart of the Clover District" — farm seeds—The Ackerman Co., Lima, Ohio. "Highest Quality Vine Seeds"—seeds—H. D. Garwood Seed Co., Rocky Ford, Colo.

Honor—field seeds—Stanford Seed Co., Buffalo, N. Y. Hoosier-Crost—hybrid seed corn—Edw.

J. Funk & Sons, Kentland, Ind. Hormolawn—lawn seed—Seaboard Seed

Co., Philadelphia, Pa. Horseshoe—seeds—Corneli Seed Co., St. Louis, Mo.

"Hungarian Grown Seeds"-field seeds-Farmers Co-op. Ass'n., Hungarian Budapest, Hungary.

Hurff-garden seeds-Edgar F. Hurff

Co., Swedesboro, N. J.

Idaho Grown Seeds—field seeds—Edgar L. Oakes & Co., Caldwell, Idaho.

nperial—lawn seed—Philadelphia Seed Imperial-

Co., Philadelphia, Pa.

Irish Green—lawn grass seed—Peppard
Seed Co., Kansas City, Mo.

"It Pays to Sow 'Em"—field seeds—Ross

Seed Co., Louisville, Ky.

Jacques—sweet corn—Jacques Seed Co.,

K—brand seeds—Geo. Keller & Sons, Old Homestead—lawn grass seed—Dur-Quincy, Ill. yea Seed Co., Inc., New York, N. Y. "Kelly's Seeds Grow"—field seeds—Kelly Old Orchard Brand—seeds—Rex D.

Seed Co., Peoria, Ill.

Keystone-Louis, Mo.

Kingscrost - hybrid corn-King & Co, Minneapolis, Minn.

"King's K-Brand Seeds Are Reliable"—field and garden seeds—H. C. King & Sons, Battle Creek, Mich.

Gold Brand Seeds"--L.L. Olds Seed Co., Madison, Wis.

Knox's Quality--farm and garden seeds -Paramount Seed Co., Stockton, Calif. Lago-garden and field seeds-F.

marsino & Sons, Sacramento, Calif. Largest Seed House Below Sea Level" -field and garden seeds—Cuff-Archias Seed Co., Brawley, Calif.
seed—J. M. La. Grown Seeds—field seeds—W. T.

Nolin, Hamburg, La.

Land o' Lakes — field seeds — Land o' Lakes Creameries, Inc., Minneapolis, Minn.

Lake of the Woods Brand—field seeds— Northern Field Seed Co., Winona, Minn. Leonard's Seeds—Michael-Leonard Seed Co., Sioux City, Iowa.

Liberty—field seeds—Stanford Seed Co.,

Buffalo, N. Y.

Lilly's—farm and garden seeds—The Chas. H. Lilly Co., Seattle, Wash.

"Lilly's Purity-Sealed Seeds"—field and garden seeds—The Chas. H. Lilly Co.,

Seattle, Wash.

Lion Brand—red clover seed—Steele, Briggs Seed Co., Ltd., Toronto, Ont., Canada.

-bulbs-American Bulb Co., Lone Star-Chicago, Ill.

-all seeds-Ed. F. Mangelsdorf & Bro.,

Inc., St. Louis, Mo.
"M Brand Seeds Are Selected for Quality"—field seeds—Ed. F. Mangelsdorf & Bro., Inc., St. Louis, Mo.

Marvelawn—grass seed—The Page Seed Co., Greene, N. Y.

Master Farm Seeds Brand-field seeds-Farmer Seed & Nursery Co., Faribault, Minn.

Maybell—pure field seeds—Ross Seed

Co., Louisville, Ky.

-seeds-The J. Chas. McCullough's Seeds-McCullough Seed Co., Cincinnati, Ohio. Merit — flower seed — Waller-Franklin Seed Co., Guadalupe, Cal.
Milford—grass seed—F. H. Woodruff &

Sons, Inc., Milford, Conn.

Milford Green—lawn seed mixture—F. H. Woodruff & Sons, Inc., Milford, Conn.
Minhybrid No. 250 — Japanese Hulless
Pop Corn—Farmer Seed & Nursery
Co., Faribault, Minn.

Minrol—Soy Meal—soybean feed—Funk Bros. Seed Co., Bloomington, Ill. National Farm (wholesale) Seed Distrib-utors—seeds—Advance Seed Co., San Francisco, Calif.

NBSco Brand—field seeds—N. Bonahoom

Seed Co., Hastings, Neb.

Newday—farm and feed seeds—Newday Seeds, Inc., Fargo, N. D.

New Idea Brand—feed—Purcell Seed Co.,

Evansville, Ind.

Nicholson's—garden, field and flower seeds—Robt. Nicholson Co., Dallas, ${
m Texas.}$

Nord-farm seeds-Twin City Seed Co., Minneapolis, Minn.

"Northern Grown Farm Seeds"-Cargill,

Inc., Minneapolis, Minn.

Northland · Brand—farm seeds—Northrup, King & Co., Minneapolis, Minn.

Old English—lawn seed—Philadelphia

– Philadelphia

Prescott, Wis.

Seed Co., Philadelphia, Pa.

Judge Brand—field Seeds—Purcell Seed Old Gold—field, flower and garden seeds

Co., Evansville, Ind.

L. Olds Seed Co., Malison, Wis.

L. Didd Seed Co., Malison, Wis.

Pearce, Moorestown, N. J.

Seeds—Corneli Seed Co., St. Olds—field seeds—L. L. Olds Seed Co.,

Madison, Wis.

Northrup, O & M—field, garden, lawn seeds and inn. seed grains—O & M Seed Co., Green Springs, Ohio.
"O & M Northern Grown Seed Corn and

Seed Oats Always Give Best Results'

-field seeds-O & M Seed Co., Green

Springs, Ohio.

Olympic Brand—true Colonial Bent—
The Chas. H. Lilly Co., Seattle, Wash.

Oregon Certified Brand—bent grass seed

-Lewis & Clark Seed Co., Astoria, Ore. Oriole—field and bird seeds—Wm. G. Scarlett & Co., Baltimore, Md.

Orisco Seeds—grown in Japan and China
—Oriental Seeds & Plants Co., San

Francisco, Calif.
Osco Brand—field seeds—Ouren Seed Co.,

Council Bluffs, Iowa.
"Our Business Is Growing"—garden
seeds — Waldo Rohnert Co., Gilroy, Calif.

"Our Seeds Grow Friends"-seeds-The J. Chas. McCullough Seed Co., Cincinnati, Ohio.

field seeds—A. S. Paterson & Coy, Ltd., Dunedin, New Zealand.

"Page's Standard Quality Seeds"-gar-

den, field and flower seed—The Page Seed Co., Greene, N. Y.

Paramount—field and garden seeds—
Paramount Seed Co., Stockton, Calif.

Pa-Se-Co—seed corn—The Page Seed Co.,

Greene, N. Y.

Patriot Brand—lawn and farm seeds— Seaboard Seed Co., Philadelphia, Pa.

Peak of Perfection—field and garden seeds—Paramount Seed Co., Stockton, Calif.

Pedrick's-high quality seeds-George R.

Pedrick & Sons, Pedricktown, N. J.

Pep—lawn grass seed—Peppard Seed
Co., Kansas City, Mo.

Pep Pop—popcorn—Peppard Seed Co.,

Various City, Mo.

Kansas City, Mo.

Pepseeco—"Cream of the Crop" field seeds—Peppard Seed Co., Kansas City, Mo.

Perfection—field seed—Geo. P. Sexauer & Son, Brookings, S. D.

Permaturf—lawn seed—Twin City Seed Co., Minneapolis, Minn.

Pilgrim Brand—lawn grass seed mixture—Associated Seed Growers, Inc., New Haven, Conn.

Pine Tree-farm seeds--The Albert Dickinson Co., Chicago, Ill.

"Pioneer Seed Growers"-Pioneer Seed Growers"—garden seeds— The Kimberlin Seed Co., San Jose, Calif.

"Plant Hart's Seeds"—garden seeds—The Chas. C. Hart Seed Co., Wethersfield,

"Plant Page's Seeds-They Grow"-garden, field and flower seeds—The Page Seed Co., Greene, N. Y.

Platte — seeds — Nebraska Seed Co., Omaha, Nebr.

Pride-hybrid seed corn-Twin City Seed Co., Minneapolis, Minn.

Pride of the North—farm and lawn seeds

-Twin City Seed Co., Minneapolis, Minn.

Puget Sound Brand — seeds — Leckenby

Seed Co., Seattle, Wash.

Pure Bred Seeds Brand—garden seeds Condon Bros. Seedsmen, Rockford, Ill.

"Pure Tested Seeds"-Holmes Seed Co., Canton, Ohio.

Puritan—blue grass seed—Sphar & Gay Seed Co., Winchester, Ky.

Purity—field, flower and garden seed—Robt. Nicholson Seed Co., Dallas, Texas.

"Purity and Reliability Since 1907"— seeds—J. P. Snapp & Sons, Limestone, Tenn.

-WSCO -- Pieters-– garden seeds-Wheeler Seed Co., Gilroy, Calif.

Quaker-field seeds-Philadelphia Seed Co., Philadelphia, Pa.

Quality Seeds—field seeds—Stollers Seed House, Paulding, Ohio.

"Quality Seeds That Grow"-field and garden seeds-Valker-Christensen Co., Inc., Minot, N. D.

Queen City-seeds-J. Chas. McCullough

Seed Co., Cincinnati, Ohio.

Quicklawn Brand—lawn grass seed mixture—Associated Seed Growers, Inc., New Haven, Conn.

Rbest Feeds Brand—feeds—The Bowman

Seed Co., Concordia, Kans.

"Red Top People-Tip Top Sales"-seeds Shultz Seed Co., Olney, Ill.

Regal Brand-seeds-Rudy-Patrick Seed Kansas City, Mo.

Reliable—field seed—J. M. Schultz Seed Co., Dieterich, Ill.

Reliable Seeds Brand—garden seeds— Waldo Rohnert Co., Gilroy, Calif.

"Reliable Seed for the South Since 1900" -field seed-R. E. Lambert & Sons, Darlington, Ala.

Rex Brand—seeds— -Rudy-Patrick Seed Co., Kansas City, Mo.

Robin-Seeds — vine seeds — Lawrence

Robinson & Sons, Modesto, Calif.

Rob-See-Co—garden seeds and seed corn—J. C. Robinson Seed Co., Waterloo, Nebr.

Rohco Brand-lettuce seed-Waldo Rohnert Co., Gilroy, Calif.

Royal—field and grass seeds—Ru Patrick Seed Co., Kansas City, Mo.

Santa Barbara Seed Beans-McCrea Seed Co., Santa Barbara, Calif.

Scott's-lawn seed-O. M. Scott & Sons Co., Marysville, Ohio.

Security—field seeds—Cargill, Inc., Minneapolis, Minn.

"Seedsmen For Over a Century"—garden and lawn seeds, bulbs-Robt. Buist Co., Philadelphia, Pa.

"Seed With a Background"—pepper and Thor-o-Brand—seed S—Law, tomato seed—Joseph White Co., Pty., Ltd., Melbourne, Austral Bridgeton, N. J.

"Seeds of Rare Plants"—seeds—Rex D. Pearce, Moorestown, N. J.

"Seeds That Grow"-W. Atlee Burpee Co., Philadelphia, Pa.

"Seeds That Grow"—garden, field and flower seeds—The Chas. C. Hart Seed Co., Wethersfield, Conn.

"Seeds That Succeed"—garden, field and lawn seed-S. D. Woodruff & Sons, Inc., Orange, Conn.

"Seeds That Grow, Need Any?"—Nebraska Seed Co., Omaha, Nebr.

Service First Brand—field seeds—International Seed, Inc., New York, N. Y. Shaditurf—lawn seed—Twin City Seed

Co., Minneapolis, Minn. Shady Lawn Brand—lawn grass seed mixture — Associated Seed Growers,

Inc., New Haven, Conn.

Shady Nook—lawn seed—J. Chas. Mc-Cullough Seed Co., Cincinnati, Ohio.

Shady Spot-lawn grass mixture-Dur-

yea Seed Co., Inc., New York, N. Y.
"Shurco Seed Sure Success" — garden seeds—The John Mosbell Co., New York, N. Y.

S & S (Service & Satisfaction)—field and garden seeds-Shuler & Smoak, Orangeburg, S. C.

Sioux-field, garden and flower seeds-Michael-Leonard Seed Co., Sioux City, Iowa.

Six Green Stripes—blue grass seed—

Nebraska Seed Co., Omaha, Nebr.
Skagit Valley Brand—garden seeds—J.
A. Boyce Co., Mt. Vernon, Wash. Solar Brand-field seeds-Henry Hirsch

& Sons, Inc., Toledo, Ohio.

Soo-Bred-bantam sweet corn-Michael-Leonard Seed Co., Sioux City, Iowa. Sterling-farm seeds and feeds-Northrup, King & Co., Minneapolis, Minn.

"Stollers' Quality Seed For All Your Wolf—red clover seed—Steele, Briggs Needs"—Stollers Seed House, Paul-Seed Co., Ltd., Toronto, Ont., Canada. ding, Ohio.

Stork—field seeds-Cargill, Inc., Minneapolis, Minn.

Suburban—lawn seed—J. Chas. McCullough Seed Co., Cincinnati, Ohio.
"Suc-Seed with Page's Seeds" — field,

flower and garden seeds — The Page Seed Co., Greene, N. Y.

"Suhrco Seed Sure Success" — garden

seeds-John Mosbell Co., New

Sunnybrook — seeds — W. Atlee Burpee Co., Philadelphia, Pa.

Sunrise Brand—strawberry clover—The Chas. H. Lilly Co., Seattle, Wash.

Superior—lawn grass mixture—Duryea Seed Co., Inc., New York, N. Y. Superfine Brand—lawn seed—The J. Chas. McCullough Seed Co., Cincinnati,

Ohio. Supreme-seed grain, corn and grass

seeds — Goldberg Seed & Feed Fargo, N. D.

Sterling Brand-farm seeds-Northrup, King & Co., Minneapolis, Minn.

S-X Brand—seeds—Geo. P. Sexauer & Son, Brookings, S. D.

"Tested Radway Seeds—Always Dependable"—seeds—I. L. Radwaner Seed Co., Inc., New York, N. Y.

"The Best in Seed Corn"—C. S. Clark & Sons, Wakeman, Ohio,

"The Oldest & Largest Seed House in the South"—T. W. Wood & Sons, Richmond, Va.

"The Sure Growing Kind"—field seeds-Louisville Seed Co., Inc., Louisville, Ky.
"They Grow Better—They Yield Better"
—seeds—Walter S. Schell, Inc., Har-

risburg, Pa. Pty., Ltd., Melbourne, Australia.

ger—red clover seed—Steele, Briggs Seed Co., Ltd., Toronto, Ont., Canada. "Tiger Brand Seeds for All Your Needs"

-seeds - Sommer Bros. Seed Co., Pekin, Ill.

T-N-T Pop Corn—The Barteldes Seed Lawrence, Kans. Co.,

Top Flight Bantam—hybrid sweet corn— Michael-Leonard Seed Co., Sioux City, Iowa.

Trinity Brand—field and grass seed—The Belt Seed Co., Inc., Baltimore, Md.

Tru-Green—lawn seed—J. Chas. McCullough Seed Co., Cincinnati, Ohio.

Truval—field seeds of true value—Purcell Seed Co., Evansville, Ind.

Turfmaker-lawn seed mixture-F. H. Woodruff & Sons, Inc., Milford, Conn. Utryit - seeds - Nebraska Seed Co. Omaha, Nebr.

Valley-seeds-J. Chas. McCullough Seed Co., Cincinnati, Ohio.

Value Brand-field seeds-Henry Hirsch & Sons, Inc., Toledo, Ohio.

Vaughan's—field, garden and grass seeds, and bulbs—Vaughan's Seed Store, Chicago, Ill.

Village Green—lawn grass mixtures— Duryea Seed Co., Inc., New York, N. Y.

Wab-seeds-W. Atlee Burpee Co., Philadelphia, Pa.

Waller's-flower seeds-Waller-Franklin Seed Co., Guadalupe, Calif.

Washington Park—lawn seed—J. Chas. McCullough Seed Co., Cincinnati, Ohio. W.D.G. Blue Label Dahlias — Grown where Dahlias grow Best—Wa Dahlia Gardens, Wayland, Mich. -Wayland

McCul-Whiz-Bang—popcorn—J. Chas. lough Seed Co., Cincinnati, Ohio.

"Wild White from Oldest Pastures"— cal Co., Midland, Mich. clover seed—Harold Saad's Seeds, Ltd., Ariens-Tiller—harrow—Ariens Co., Bril-Ipswich, England.

Woodco—lawn seed mixture and grass seed—F. H. Woodruff & Sons, Inc., Milford, Conn.

Wood's Dixie Lawn Grass-Grows Green in Dixie Sunshine-T. W. Wood & Sons, Richmond, Va.

Wood's Tested Seeds-field, garden and flower seeds-T. W. Wood & Sons, Richmond, Va.

-vegetable seeds and Woodruff Seedsgrasses-F. H. Woodruff & Sons, Inc.. Milford, Conn.

XX-1-hybrid seed corn-Ed. F. Mangelsdorf & Bro., Inc., St. Louis, Mo.

Yellows Resistant—cabbage seed—Wisconsin Cabbage Seed Co., Racine, Wis. -Dur-Yorkshire Park—lawn grass seed—D yea Seed Co., Inc., New York, N. Y.

Zwaan's Snowdrift - cauliflower seed-Zwaan & Van der Molen, Voorburg Holland.

allied Trades

AA Quality-fertilizer-American Agricultural Chemical Co., New York, N. Y.

AA Westcoast—raffia—McHutchison & Co., New York, N. Y.

"Ace of Bug Killers"—insecticide—OneSpot Co., Elkridge, Md.

Actirote - insecticide-Hammond Paint & Chem. Co., Beacon, N. Y.
& D—Peat moss stable bedding—

Atkins & Durbrow, New York, N.

Aeroil—oil burning equipment—Aeroil Burner Co., Inc., West New York, N. J. A.F.S.—Watch Us Grow—florists' sup-

plies-American Florists Supply Co., Chicago, Ill. Agate—seed scale—Henry Troemner,

Philadelphia, Pa.

- fertilizer—American Agrico tural Chemical Co., New York, N. Y.
"A Live Line for Live Dealers"—garden

sprays-Calif. Spray Chemical Corp., Elizabeth, N. J.

"All the Food Your Plant Needs"—plant

food-Wm. H. Rorer, Inc., Philadelphia, Pa.

Purpose Hoe-garden tools-Easyfold Mfgr., Faribault, Minn. Amalead—bag seals—E. J. Brooks Co.,

Newark, N. J. American Bean and Pea Thresher— American Grain Separator Co., Minne-

apolis, Minn. Ames—cotton bags—Ames Bag Machine Co., Cleveland, Ohio

Amesaks-cotton bags--Ames Bag Machine Co., Cleveland, Ohio.

Annia-Germ—fumigant insecticide— Douglas Chem. & Supply Co., Kansas City, Mo.
Ant-B-Gon—Ant Control — Calif. Spray

Chem. Corp., Elizabeth, N. J. Ant Gas—ant and mole exterminator—

Hammond Paint & Chemical Co., Beacon, N. Y.

Antrap-ant killer-Hammond Paint & Chem. Co., Beacon, N. Y.

Antrol—house and garden pest controls
—The A. S. Boyle Co., Jersey City, N. J.

Antx-repellent-Nott Mfg. Co., New York, N. Y.

A.P.G.—seed packets and catalog envelopes—American Paper Goods Co., Chicago, Ill.

"A Package Sealed is a Package Saved" -bag seals-E. J. Brooks Co., New-ark, N. J.

App-L-Set—plant hormone—Dow Chemical Co., Midland, Mich.

lion, Wis.

—Detecto-Gram Scales, Brooklyn, N. Y.

B & T Creosote—C-A-Wood Preserver

Co., St. Louis, Mo.

"Battle Creek Health Foods for Dogs"dog foods-Battle Creek Dog Food Co., Battle Creek, Mich.

Bartlett-garden and lawn tools, sprayers, tree paints—Bartlett Mfg. Co., Detroit, Mich.

Barmanco Tree Filler—asphalt compound -Bartlett Mfg. Co., Detroit, Mich.

B-B-farm and garden specialties-Ball-

Biddle Co., Riverton, N. J.

B-B Dust—bean beetle dust—Hammond

Paint & Chem. Co., Beacon, N. Y. Brand-insecticides and disinfectants-The McCormick Sales Co., Balti-

more, Md.
emis "A's"—standard seamless seed bag of America-Bemis Bro. Bag Co.,

Louis, Mo.

Bemis Special—threads for machine closing of bags-Bemis Bro. Bag Co., St. Louis, Mo. Best on Earth — fertilizer

Summers Fertilizer Co., Baltimore, Md.

"Better Printing—Bigger Sales"-

ing—A. B. Morse Co., St. Joseph, Mich. Bighead—sprayers—Dobbins Mfg. Co., Elkhart, Ind.

Biotol-sardine oil-Atkins & Durbrow,

Inc., New York, N. Y.
Bird Neponset—flower pots, covers and
earth bands—Bird & Son, Inc., East Walpole, Mass.

lack Arrow—insecticide—The McCormick Sales Co., Baltimore, Md. Black

Black Leaf 40—insecticide, poultry lice killer, worm remedy and dog repellent —Tobacco By-Products & Chemical

Corp., Louisville, Ky. Black Leaf Worm Powder and Pelletspoultry roundworm remedy—Tobacco By-Products & Chem. Corp., Louisville,

Ky.

Bordow—insecticide—Dow Chemical Co., Midland, Mich.

Brown—seed packet filling machines and seed packets-Brown Bag Filling Machine Co., Fitchburg, Mass.

Bug-Geta-insect control-Calif. Spray Chem. Corp., Elizabeth, N. J.

Buhler — patented vibrationless sieve drives—S. Howes Co., Inc., Silver Creek, N. Y.

C-A — Wood Preserver — Carbolineum America—C-A Wood Preserver Co., St. Louis, Mo.

Cap Brush-roost applicator for delousing poultry—Tobacco By-Products & lizer—Atkins & Durbrow, Inc., New Chem. Corp., Louisville, Ky.

Carbolineum America—C-A-Wood Pre
Carbolineum Control of the Control of

server Co., St. Louis, Mo. Cardinal Brand-wild bird food and suet

cake-Garden Products Co., St. Louis, Mo.

Carter-Co., Minneapolis, Minn.

Cascade—vertical seed mixers—S. Howes Co., Inc., Silver Creek, N. Y.

Cattle Comfort-stock spray-Hammond Paint & Chemical Co., Beacon, N. Y.

Certified Premier-Swedish Peat Moss-Premier Peat Moss Corp., New York, N. Y.

hampion—weighing and filling machines—S. Howes Co., Inc., Silver Creek, N. Y. Champion-

Chappel's Biskits—fresh meat biskits for dogs-Chappel Bros., Inc., Rockford,

Chinchola—chinch bug exterminator— Hammond Paint & Chem. Co., Beacon,

Arrow—peat moss—New Amsterdam Import & Supply Co., Inc., New York, N. Y.

"A Scale for Every Seed Need"—scales — Detecto-Gram Scales, Brooklyn, N. Y.

"B. G. Pratt Co., New York, N. Y.

"B. G. Pratt Co., New York, N. Y.

"B. G. Pratt Co., New York, N. Y.

"Eagle Machine Thread—twine—Fulton Bag & Cotton Mills, Atlanta, Ga.

"Eagle Sail Twine—twine—Fulton Bag & Cotton Bag & Cotton Mills, Atlanta, Ga.

"Eagle Sail Twine—twine—Fulton Bag & Cotton
Co., Saginaw, Mich.
Clute—air-lift elevators and fruit graders—Oliver Mfg. Co., St. Louis, Mo. Combination—fertilizer spreader a

seeder-Cyclone Seeder Co., Urbana,

Compound Lever—tree trimming equipment—Bartlett Mfg. Co., Detroit, Mich.

Copper-Rotenone — combined dust — Mechling Bros., Chemicals, Div. of General Chemical Co., Philadelphia, Pa.

Copper Solution-fungicide-Hammond Paint & Chem. Co., Beacon, N. Y.

Crinkle-"Plant covers give complete crop protection all season at the lowest cost"—plant protectors—Oldmill Page Products Corp., Long Island City, N. Y.

Cyclone-poultry supplies and broadcast seeder—Cyclone Mfg. Co., Urbana, Ind. Dandelion Killer—weed killer — Ham-

mond Paint & Chem. Co., Beacon, N. Y. Deltaseal—small package bag closure— Bemis Bro. Bag Co., St. Louis, Mo.

Detecto-Gram — scales — Detecto-Gram Scales, Brooklyn, N. Y. Dickinson's—dog food—The Albert Dick-

inson Co., Chicago, Ill.

Disbrow—seed bags, packets, envelopes, paper boxes-Disbrow Mfg. Co., New-

ark, N. J. DN—dust—Dow Chemical Co., Midland, Mich.

DN-dry-mix-Dow Chemical Co., Midland, Mich.

Dobbins—dusters and sprayers—Dobbins Mfg. Co., Elkhart, Ind.

Dog-Check--repellent-Nott Mfg. Co., New York, N. Y.

Dog Skat-dog and cat repellentmond Paint & Chemical Co., Beacon,

Dogzoff-dog repellent-Bohlender Plant Chemicals, Inc., Tipp City, Ohio Dowax—Dow Chemical Co., Midland,

Dowfume-Dow Chemical Co., Midland, Mich.

Dow Chloropicrin—Dow Chemical Co., Midland, Mich.

Dow Dichlordiethyl Ether-Dow Chemical Co., Midland, Mich.

Dow Methal Bromide-fumigant-Dow Chemical Co., Midland, Mich.

Dowspray-Dormant—Dow Chemical Co., Midland, Mich.

Dragon Line-weed killer-Parco Products Co., Allentown, Pa.

-fertilizer-all organic ferti-Driconure-

Bro. Bag Co., St. Louis, Mo.
DuBay New Improved "Ceresan"—seed disinfectant—Bayer-Semesan Co., Inc., Wilmington, Del.

-disc separators — Hart-Carter DuBay "Nu Green"—seed disinfectant— Inneapolis, Minn. Bayer-Semesan Co, Inc., Wilmington. Del.

> DuBay 2% "Ceresan"—seed disinfectant -Bayer-Semesan Co., Inc., Wilmington, Del.

> DuBay "Semesan, Jr."-seed disinfectant -Bayer-Semesan Co., Inc., Wilmington, Del.

> DuBay "Semesan Bel"—seed disinfectant Bayer-Semesan Co., Inc., Wilmington, Del.

> DuBay "Semesan"—seed disinfectant— Bayer-Semesan Co., Inc., Wilmington,

> DuBay Special "Semesan"-seed disinfectant—Bayer-Semesan Co., Inc., Wilmington, Del.

Cotton Mills, Atlanta, Ga.

Easyfold—display equipment—Easyfold Mfgr., Faribault, Minn.

bags-Bemis Bro. Economy—mailing

Bag Co., St. Louis, Mo.

Eezy-Wear — garden gloves — National
Glove Co., Columbus, Ohio.

Erosionet-for preventing soil and seed washing on lawns and terraces—Bemis

Bro. Bag Co., St. Louis, Mo. hocil—Dow Chemical Co., Ethocil—Dow Co., Midland, Mich.

Eureka—seed cleaners, separators graders, lawn seed mixers, scarifiers and seed processing machinery—S. Howes Co., Inc., Silver Creek, N. Y. Everlastic—glazing bedding putty—Hammond Paint & Chemical Co., Beacon,

Eveready—power sprayer—Dobbins Mfg. Co., Elkhart, Ind.

"Everything for the Dog"-pet supplies —Spratt's Patent, Ltd., Newark, N. J. Exact Weight—scales—Exact Weight

Scale Co., Columbus, Ohio
Exadol—cod liver oil—Atkins & Durbrow, Inc., New York, N. Y.

Expan—propagating pots—Paxton Products Co., Riverside, Calif.

Expan—tree protector—Paxton Products Co., Riverside, Calif.

Expert Line—grain and seed cleaners, corn sorters, hullers, scarifiers, fanning mills-Cleland Mfg. Co., Minneapolis,

Extrax—complete organic insecticide— Calif. Spray Chem. Corp., Elizabeth,

Eye-Dentify—seals—Stoffel Seals Co., Inc., Chicago, Ill.

& Plant Co., Los Angeles, Calif.

rmogerm—inoculant — Earp-Thomas Farmogerm-inoculant

Laboratories, Bloomfield, N. J. Fertil-Spray—spraying device—H ponic Chemical Co., Inc., New device-Hydro-

N. Y.
"Field Warehousing by Douglas-Guardian"—Douglas-Guardian Whse. Corp.,

Chicago, Ill. Filmfast — insecticide spreader — Mech-

ling Bros. Chemicals, Div. General Chem. Co., Philadelphia, Pa.

Flea-not—repellent—Nott Mfg. Co., New York, N. Y.

Flex-Beam—garden tool handles—Union Fork & Hoe Co., Columbus, Ohio

Flex-O-Glass—glass substitute—Flex-O-Glass Mfg. Co., Chicago, Ill. Fly-Away—spray—Hammond Chemical Co., Beacon, N. Y. Paint &

Flyzoff-fly repellent-Bohlender Plant

Chemicals, Inc., Tipp City, Ohio. For-Get-Me-Not—natural and colored raffia and peat moss—Julius Loewith, Inc., New York, N. Y.
Formacide—fungicide—Hammond Paint

& Chem. Co., Beacon, N. Y. Four-In-One-percentage scale

buro Equipment Co., Chicago, Ill. Fruitone—hormone to avoid fruit drop-American Chemical Paint Co., Ambler,

Fultex—waterproofed canvas tarpaulins and covers-Fulton Bag & Cotton

Mills, Atlanta, Ga.
Fulton "A"—cotton seamless bagston Bag & Cotton Mills, Atlanta, Ga.

A-1-insect spray-Plantabbs Co., Baltimore, Md.

Fulton Brown—tarpaulins— -Fulton Bag & Cotton Mills, Atlanta, Ga.

Fumigato—fumigant—Douglas Supply Co., Kansas City, Mo. -Douglas Chem. & Fun-L-Fill-sprayers-Dobbins Mfg. Co., H. W. K .- weed killer-Hammond Paint Elkhart, Ind.

& O—resale merchandise for seed stores—Goulard & Olena, Inc., New York, N. Y.

Galloway-seed packets-Schmidt Litho-

graph Co., San Francisco, Calif.

Garden Volck—positive contact insecticide with Nicotine—Calif. Spray
Chem. Corp., Elizabeth, N. J.

Gardex - garden tools - Gardex, Inc.,

Michigan City, Ind.

Gard-N-Cart—garden implement—Masters Planter Co., Benton Harbor, Mich. Germaco Products—garden specialties-Germain Seed & Plant Angeles, Calif. Co.,

"Get it for a Song"—bird foods—The Nature Friend, Inc., New York, N. Y. Geha—fish food—Schoemann and Mayer,

Inc., New York, N. Y.

Glass-O-Net-mesh base glass substitute Flex-O-Glass Mfg. Co., Chicago, Ill. Goldena—feeds—Goldberg Seed & Feed Co., Fargo, N. Dak. Gold Leaf—tobacco powder—Tobacco

By-Products & Chem. Corp., Louisville,

Go-West—the improved insect bait—Agricultural Laboratories, Inc., Columbus, Ohio.

Go-West-bait-The Chas. H. Lilly Co., Seattle, Wash.

GPM—granulated peat moss—Atkins & Durbrow, Inc., New York, N. Y.
Grape and Rose Dust—fungicide—Ham-

mond Paint & Chemical Co., Beacon,

Greenol—copper fungicide for mildews and other diseases—Calif. Spray Chem. Corp., Elizabeth, N. J.

Grip-Lock—bag seal—E. J. Brooks Co., Newark, N. J.

Guardnet-protecting fabric for shading plants and balling roots—Bemis Bro. Bag Co., St. Louis, Mo. Hall—printers—W. F. Hall Printing Co.,

Chicago, Ill. Hammond Weed Killer—Hammond Paint

& Chem. Co., Beacon, N. Y. Hammond's — insecticides, fungicides, paints and putties—Hammond Paint & Chemical Co., Beacon, N. Y

Handy Andy-weed cutters-Union Fork

& Hoe Co., Columbus, Ohio
Handy Andy Gun—weed killer—Parco Products Co., Allentown, Pa. Harco—sprayer—Germain Seed & Plant

Co., Los Angeles, Calif.

Hart—corn grader—Hart-Carter Co.,
Minneapolis, Minn.
Heinrich—envelopes—Heinrich Envelope
Co., Minneapolis, Minn.

Heller—store equipment—Heller & Co., Montpelier, Ohio

Henure—fertilizer—Atkins & Durbrow, Inc., New York, N. Y.

Hi-Lo-Fosfate—soil test for available phosphates-Urbana Laboratories, Ur-

Hi-Wall—tourists tents—Bemis Bro. Bag Co., St. Louis, Mo. Hoffer Test—for nitrogen and potash—

Urbana Laboratories, Urbana, Ill.

Horicum Lime—sulphur concentrate and fungicide—Hammond Paint & Chemical Co., Beacon, N. Y.

Hormodin—powders—Merck & Co., Inc., Rahway, N. J. Hormodin No. 1, No. 2 & No. 3 Powder—root forming chemical—Merck & Co., Inc., Rahway, N. J.

Hotkaps — plant protectors — Germain Seed & Plant Co., Los Angeles, Calif. Howes—equipment for seed houses—S.

Howes Co., Inc., Silver Creek, N. Y. Humogerm — inoculant — Earp-Thomas Laboratories, Inc., Bloomfield, N. J.

& Chemical Co., Beacon, N. Y. Hydroxcide—insecticide—Mechling Bros.

Chemicals, Div. of General Chemical Co., Philadelphia, Pa.

"Hyponex grows Plants in Soil, Sand or Water"—plant food—Hydroponic Chemical Co., Inc., New York, N. Y. Invincible—bean polishers and bean

cleaning and grading equipment—S. Howes Co., Inc., Silver Creek, N. Y. co Spray—insecticide—Innis, Speiden

& Co., New York, N. Y.

Jak Tung—trucks—Thomas Truck &

Caster Co., Keokuk, Iowa.

-Japanese bean beetle destroyer Mechling Bros. Chemicals, Div. General Chem. Co., Philadelphia, Pa. JayBee—world's standard grinder for

capacity, economy and endurance—J. B. Sedberry, Inc., Franklin, Tenn. Ken-L-Biskit—dog food of champions—

Chappel Bros., Inc., Rockford, Ill. Ken-L-Ration—dog food of champions-

Chappel Bros., Inc., Rockford, Ill.

Ken-L-Worth—fresh meat dog biskit—
Chappel Bros., Inc., Rockford, Ill.

Kerosene Emulsion—insecticide—Ham

mond Paint & Chemical Co., Beacon,

Kilmice—repellent—Nott Mfg. Co., New York, N. Y. Kix—water conditioner, spreader and sticker—Hammond Paint & Chemical Co., Beacon, N. Y.

Kneezies—knee pads—Salta Corp., Virginia—Rubatex Div., Jersey City, N. J. Krussow—double spiral seed separator—Cleland Mfg. Co., Minneapolis, Minn.

Kwik-Camp—auto tents—Bemis Bro. Bag Co., St. Louis, Mo. Lac-Hi-Potash—soil test for available

potasium—Urbana Laboratories, Urbana. III. Larvacide-fumigant for insect, soil and rodents-Innis, Speiden & Co., New

York, N. Y. Legume "Another Step Ahead"—inoculant-Agricultural Laboratories, Inc.,

Columbus, Ohio. Leonard—horticultural knives, nursery spades, arboricultural supplies—A. M.

Leonard & Son., Piqua, Ohio.
Lenonet—soil fixation material—Bemis

Bro. Bag Co., St. Louis, Mo.

Life-O-Plant — plant food — Bohlender
Plant Chemicals, Inc., Tipp City, Ohio.

Lilly's—calf meal and dog food—The
Chas. H. Lilly Co., Seattle, Wash.

Liquid Slug Shot—insecticide—Ham-

mond Paint & Chem. Co., Beacon, N. Y. Little Wonder—hedge trimmer — Detco

Mfg. Co., Oaks, Pa.

Loma—The perfect plant food—Tennessee Corp., New York, N. Y.

Lyric—mixed bird seed—Philadelphia

Seed Co., Philadelphia, Pa.

McCormick's Rotenone Dust—dust—The

McCormick Sales Co., Baltimore, Md. Macmillan—garden books—The Macmillan Co., New York, N. Y.

Magic Song Restorer-bird foods-The Nature Friend, Inc., New York, N. Y. Mainstay—twine for hand closing of bags

—Bemis Bro. Bag Co., St. Louis, Mo. Maro-Meat—dog food—Chappel Bros., Inc., Rockford, Ill.

Mc Queen's-inoculator-"The Farmer's Friend Since 1908"—Agricultural Lab-

oratories, Inc., Columbus, Ohio.

Mash Nic—Tobacco By-Prod. & Chem.
Corp., Louisville, Ky.

Masters—garden implements-Planter Co., Benton Harbor, Mich. Mechling's Scale Oil-insecticide-Mech-

ling Bros. Chemicals, Div. of Gen. Chem. Co., Philadelphia, Pa. Merck-animal dips, disinfectants, fumigants, lice killers, seed disinfectants,

fungicide-Merck & Co., Inc., Rahway,

Metasol-crab grass killer-Parco Prod-

Metasol—crab grass Miles ucts Co., Allentown, Pa. Michigan Peat—Soil Sponge—"America's finest peat."—American Soil Sponge Selling Corp., New York, N. Y. Michigan Sedge Peat—peat conditioner

for golf courses, lawns and gardens—American Soil Sponge Selling Corp., New York, N. Y.

Mike Sulfur-Dow Chemical Co., Midland, Mich.

Miller's Kibbles-Battle Creek Health food for dogs-Battle Creek Dog Food Co., Battle Creek, Mich.

Mix—bean sorters—S. Howes Co., Inc., Silver Creek, N. Y. Morcrop—fertilizer—The Chas H. Lilly

Co., Seattle, Wash.

Mor-Les-Nitrate—soil test for nitrates-

Urbana Laboratories, Urbana, Ill. Mosquitozoff—mosquito exterminator— Bohlender Plant Chemicals, Inc., Tipp City, Ohio.

Mt. Beacon—green shading—Hammond Paint & Chemical Co., Beacon, N. Y. Myers—sprayers—F. E. Myers & Bro.

Co., Ashland, Ohio

Naptoside-insecticide and soil fumigant Hammond Paint & Chem. Co., Bea-

con, N. Y.
"Nation Wide Service"—Stecher-Traung

Lithograph Corp., Rochester, N. Y. Neponset—flower pots, flower pot covers and earth bands—Bird & Son, Inc., East Walpole, Mass.

Nico-Fume Liquid—greenhouse sprav and fumigant-Tobacco By-Products & Chem. Corp., Louisville, Ky.
Nico-Fume Powder—greenhouse

gant-Tobacco By-Products & Chem. Corp., Louisville, Ky.

Nicotine Soap-insecticide - Hammond Paint & Chemical Co., Beacon, N. Nicotrol—aphicide — Kay-Fries cals, Inc., New York, N. Y.

Nitragin-soil and legume inoculator-Nitragin Co., Inc., Milwaukee, Wis. "Nitragin—the oldest and most widely used inoculator in America"-inoculator-The Nitragin Co., Inc., Milwaukee,

Wis. No Crow—crow repellent Paint & Chem. Co., Beacon, N. Y. Crow-crow repellent-Hammond

Nod-O-Gen—pretested inoculator—The Albert Dickinson Co., Chicago, I'l. Nursery Volck—foliage oil spray—Calif. Spray Chem. Corp., Elizabeth, N. J. Nu-Vim—Vitamin B₁ tablets and liquid—

Garden Products Co., St. Louis, Mo. O.K.—poultry litter—Atkins & Durbrow, Inc., New York, N. Y. Old English—liquid putty—Hammond Paint & Chemical Co., Beacon, N. Y.

Old English—sheep manure—Philadel-phia Seed Co., Philadelphia, Pa.

Old English-turf builder and plant food -Philadelphia Seed Co., Philadelphia,

Old English Lawn Klenser-Japanese beetle exterminator—Philadelphia Seed Co., Philadelphia, Pa.

Oliver-gravity separators, corn graders, aspirators, seed treaters, bag cleaners, shaking shoes and portable electric blowers-Oliver Mfg. Co., St. Louis,

One-Spot—flea killer, in Spot Co., Elkridge, Md. insecticide-One

Original—greenhouse white paint—Hammond Paint & Chem. Co., Beacon, N. Y.

Oriole-pigeon feeds-Wm. G. Scarlett & Co., Baltimore, Md.

Ortho - scientific pest control - Calif. Spray Chem. Corp., Elizabeth, N. J. Paradow-Dow Chemical Co., Midland,

Mich.

Co., Allentown, Pa.
Peat O'Maine—garden and poultry peat moss (Maine)—Atkins & Durbrow, Inc., New York, N. Y.

Peerless—gunning asbestos asphaltum— Hammond Paint & Chemical Co., Bea-

Peerless—poultry feed—Geo. P. Sexauer & Son, Brookings, S. Dak.

Penetrol-spreader nicotine, lead arsenate—Kay Fries Chemicals, Inc., New York, N. Y.

Perfection—dog and fox food—Perfection Foods Co., Battle Creek, Mich.

Perfection Coliverol-powdered cod liver oil-Perfection Foods Co., Battle Creek, Mich.

Perfecto-Sote—C-A-Wood Preserver Co., St. Louis, Mo.

Perfect Dispersion-aluminum paint for greenhouse use—Hammond Paint & Chem. Co., Beacon, N. Y.

Pest-Kit—kit containing material to combat insects and diseases-Hammond Paint & Chemical Co., Beacon, N. Y.

Pioneer—garden and poultry peat moss (Ontario, Canada)—Atkins & Durbrow, Inc., New York, N. Y. Plant Dinner—plant food—Wm. H. Rorer,

Inc., Philadelphia, Pa.

Plantabbs—plant food and fertilizer— Plantabbs Corp., Baltimore, Md.

Plasti Chrome—garden tools — Union Fork & Hoe Co., Columbus, Ohio

Post-O-Meter-Scales — Detecto-Gram Scales, Brooklyn, N. Y. Pratt—sprays—B. G. Pratt Co., New

York, N. Y. Premier — Vacuum

Cleaned Certified Swedish Peat Moss—Premier Peat Moss Corp., New York, N. Y.

"Printed Salesmakers"—printing—A. B. Morse Co., St. Joseph, Mich.
"Protex, the New Discovery for Tree, Shrub and Plant Protection"—Protex

Industries, Inc., New York, N. Y.

Purgrain—pigeon, poultry and rabbit feeds and pigeon health grit—Philadelphia Seed Co., Philadelphia, Pa.

Pussy-Check—repellent—Nott Mfg. Co., New York, N. Y.

Pyrote—non-poisonous double acting in-secticide—Mechling Bros. Chemicals, Philadelphia, Pa.

Racine—fanning mill type seed cleaners
—S. Howes Co., Inc., Silver Creek,
N. Y.
Rat-Nots—repellent — Nott Mfg. Co.,

New York, N. Y. Rat-X — rat exter

exterminator — Douglas Chem. & Supply Co., Kansas City, Mo.
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with a backbone"—Union Fork & Hoe
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Red Arrow—insecticide—The McCormick
Sales Co., Baltimore, Md.
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Red Star Brand—raffia—McHutchison & Co., New York, N. Y.
"Reliability"—McHutchison & Co., New York, N. Y.

Rice-seed mill-W. A. Rice Co., Jerseyville, Ill.

-soil test for acidity---Ur-Rich-or-Poor-

bana Laboratories, Urbana, Ill. Roach Flakes—"It Get's 'Em" for roaches and waterbugs-Agricultural Labora-

tories, Inc., Columbus, Ohio Rodopell—bulb protector against moles, rats, mice, etc.—Atkins & Durbrow, Inc., New York, N. Y.

Rootone-the Hormone Powder—root stimulant, seed and bulb stimulant and fungicide—American Chemical Paint

Co., Ambler, Pa.
Root Quality—bee supplies—A. I. Root Co., Medina, Ohio

Rose Dust-fungicide-Hammond Paint & Chemical Co., Beacon, N. Y.

Parnox-weed killer-Parco Products Rotenone Dust-insecticide-Hammond Paint & Chemical Co., Beacon, N. Y. otenone "400"—insecticide—Mechling Rotenone

Bros. Chemicals, Div. General Chem. Co., Philadelphia, Pa. otenone "75"—insecticide — Mechling Rotenone Bros. Chemicals, Div. of Gen. Chem. Co., Philadelphia, Pa.

Royal River - seamless cotton bags Royal River Mills, Inc., Baltimore, Md. Sacco—fertilizer, plant food, fertilizer spreader and seeder—Smith Agricultural Chemical Co., Columbus, Ohio.

Sanahide—mange lotion—Schoemann and Mayer, Inc., New York, N. Y.

Scalecide—dormant spray—B. G. Pratt Co., New York, N. Y.

Scram—dog repellent—Calif. Spray Chem. Corp., Elizabeth, N. J.

Screen-Glass, plastic expend wire elections.

Screen-Glass—plastic covered wire cloth
—Flex-O-Glass Mfg. Co., Chicago, Ill.

-Fiex-U-Glass Mig. Co., Chicago, Ill.
Seal Brand Packet—seed packets—The
Disbrow Mfg. Co., Newark, N. J.
"Sealed-Brooks" — bag seals — E. J.
Brooks Co., Newark, N. J.
"Seed Worth Planting is Worth Treating"—DuBay Products—Bayer-Semesan Co., Inc., Wilmington, Del.
Seedburg Quality—grain, seed and flour

Seedburo Quality—grain, seed and flour grading equipment—Seedburo Equipment Co., Chicago, Ill.

Shadowgraph — scale — Exact Weight Scale Co., Columbus, Ohio

Sho-Gro—seed germinators — Seedburo Equipment Co., Chicago, Ill.

Shuredry—waterproof canvas tarpaulins and covers—Fulton Bag & Mills, Atlanta, Ga.

Silver Prince—portable sprayer—F. E. Myers & Bro. Co., Ashland, Ohio.

Silver Seal—aluminum paint for greenhouse use—Hammond Paint & Chem. Co., Beacon, N. Y.

"Six sizes for every crop and pocketbook" —plant covers—Oldmill Paper Products Corp., Long Island City, N. Y.
Slug Shot—insecticide in dust form—
Hammond Paint & Chemical Co., Bea-

con, N. Y. Sodus Acid Humus—humus—Soilmaster

Sodus Acid Humus—humus—Soilmaster Co., Berrien Springs, Mich.

"Soil-Flow"—garden tools—Gardex, Inc., Michigan City, Ind.
Soilmaster—plant food—Soilmaster Co., Berrien Springs, Mich.

Soil Sponge—"America's finest peat product"—American Soil Sponge Selling Corp., New York, N. Y.
Sorbex—moss peat—Atkins & Durbrow, Inc., New York, N. Y.
Spear—envelopes—Heinrich Envelope

Spear — envelopes — Heinrich Envelope Co., Minneapolis, Minn.

Speedline—garden tools—Union Fork & Hoe Co., Columbus, Ohio.

Spor-Gro—copper mildew spray powder—Mechling Bros. Chemicals, Div. of General Chem. Co., Philadelphia, Pa.



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repellent—Cedar Hill

Stanley's—crow repellent—Cedar Hill Formulae Co., New Britain, Conn. Stim-U-Plant—"The modern Plant Food Tablet"—Agricultural Laboratories,

"Stoffel Seals—they Seal and Sell"—seals—Stoffel Seals Co., Chicago, Ill.
Stop That Rot—wood preserver—C-A-Wood Preserver Co., St. Louis, Mo.

Storm King-greenhouse white paint and white glazing compound—Hammond Paint & Chemical Co., Beacon, N. Y. Styron—Dow Chemical Co., Midland,

Mich.

Sulfocide—fungicide—B. G. Pratt Co., New York, N. Y.

Sulrote—dusting mixture, insecticide and fungicide—Mechling Bros. Chemicals, Div. of Gen. Chem. Co., Philadelphia,

Summers — fertilizer — Summers Fertilizer Co., Baltimore, Md.

Sunray—plant cover—Paxton Products Co., Riverside, Calif.

Superbilt—sprayers and dusters—Dobbins Mfg. Co., Elkhart, Ind.
Super-Copper — fungicide — Hammond

Paint & Chem. Co., Beacon, N. Y.

Superior—grain and seed cleaning machinery—Superior Separator Co., Minneapolis, Minn.

Superior Scale Oil-spray—Mechling Bros. Chemicals, Div. of Gen. Chem. Co.,

Philadelphia, Pa.

Sure Shot—concentrated pyrethrum soap spray—Hammond Paint & Chemical Co., Beacon, N. Y.

"There is no substitute for Exact Weight"—scales—Exact Weight Scale Co., Columbus, Ohio

"They're Just Right Strong But Light"farm and garden tools—Union Fork & Hoe Co., Columbus, Ohio.

Thomas—floor trucks—Thomas Truck &

Caster Co., Keokuk, Iowa. Thompson's—Vitamin B₁ pellets—Wm. T. Thompson Co., Los Angeles, Calif. Thompson's Vitamizer—sprayer — Wm. T. Thompson Co., Los Angeles, Calif.
Thrip Juice — insecticide — Hammond

Paint & Chemical Co., Beacon, N. Y.

Transplantone—root stimulant—Ameri-

can Chemical Paint Co., Ambler, Pa.

"Treat Seed Every Year—It Pays"—DuBay products—Bayer-Semesan Co.,
Inc., Wilmington, Del.

Triad—insecticide—Hammond Paint &

Chem. Co., Beacon, N. Y. Troemner — scales — Henry Troemner, Philadelphia, Pa.

Try-Sax—cotton seed bags with probe stripes—Bemis Bro. Bag Co., St. Louis, Mo.

Twist-Ems—plant ties—Germain Seed & Plant Co., Los Angeles, Calif.
Two-In-One Envelope Bags—sample

mailing bags—Bemis Bro. Bag Co., St. Louis, Mo.

Union—farm and garden tools—Union Fork & Hoe Co., Columbus, Ohio Universal—combination huller, scarifier,

cleaner and grader—American Grain Separator Co., Minneapolis, Minn.

Urbana Culture—legume inoculator-Urbana Laboratories, Urbana, Ill.

Urbana Humus-legume inoculator-Urbana Laboratories, Urbana, Ill.

Spratt's—dog food and supplies—Spratt's
Patent, Ltd., Newark, N. J.

Spraycide—guaranteed household insecticide—Agricultural Laboratories, Inc., Columbus, Ohio

Stabilized Rotenone Dust—insecticide—

Tetrafume—rat exterminator—Douglas Chem. & Supply Co., Kansas City, Mo.

"The Little Man With The Big Flower" ville, Ohio.

—plant foods—Wm. T. Thompson Co., Los Angeles, Calif.

Los Angeles, Calif.

"The Spray That Won't Wash Off"—

Work, N. Y.

"The Spray That Won't Wash Off"—

The Spray That Won't Wash Off The Spray That Won't Wash Off The Spray That Won't Wash Off The Spray That Won't Wash Off The Spray That Won't Wash

plant spray—Protex Industries, Inc., New York, N. Y.

"Their Last Meal"—repellent—Nott Mfg.
Co., New York, N. Y.

"Their Last Meal"—repellent—Nott Mfg.
Vigoro—plant food—Swift & Co., Chi-

Vigoro-plant food-Swift & Co., Chicago, Ill.

Visinet—bags for fruit and vegetables— Bemis Bro. Bag Co., St. Louis, Mo. Vitality—insecticides—The Chas. H. Lilly

Co., Seattle, Wash.
Vitamist—"Vitamize As You Sprinkle"—
Burgess Seed & Plant Co., Galesburg, Mich.

Warp's Window Fabric-waxed cloth-Flex-O-Glass Mfg. Co., Chicago, Ill.

Wedo-fertilizer and plant food-Smith Agricultural Chemical Co., Columbus,

Weed Killer-weed exterminator-Hammond Paint & Chem. Co., Beacon, N. Y.

Weed-Knell-instant weed puller-Weed Knell, Aurora, Ill.

Whale Oil Soap—insecticide—Hammond Paint & Chem. Co., Beacon, N. Y.

Window-Fabric—waxed cloth—Flex-O-

Glass Mfg. Co., Chicago, Ill. Winner Fanning Mills—grain cleaner— American Grain Separator Co., Minneapolis, Minn.

Wizard-sheep and cow manure-Pulverized Manure Co., Chicago, Ill.

Woodco—lawn food—F. H. Woodruff & Sons, Inc., Milford, Conn.

Wyr-O-Glass-Wire Base Glass Substitute-Flex-O-Glass Mfg. Co., Chicago,

XX Superior Brand-raffia-McHutchison & Co., New York, N. Y.

XXX Superior Brand-raffia-McHutchison & Co., New York, N. Y.

Zotox-crab grass killer and chick weed killer-Garden Products Co., St. Louis, Mo.

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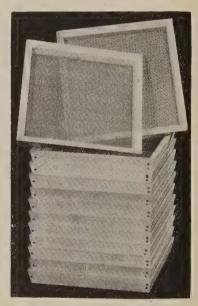


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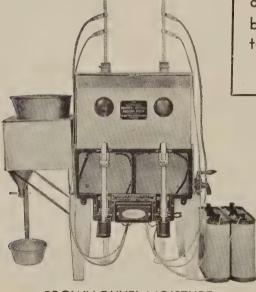
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Classifications Showing Specialties of Advertisers in Seed Trade Buyers Guide

Addresses Are Shown on Pages 234-236

Flower ANNUALS

ANNUALS

American Bulb Co.
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C. S. Brent Seed Co.
(Nasturtiums)
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Seed Co.
Robert Buist Company
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Burrell Seeds, Inc.
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Waller-Franklin Seed Co.
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F. H. Woodruff & Sons, Inc.
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American Bulb Co.

PERENNIALS

PERENNIALS

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The Nebraska Seed Co.
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I. L. Radwaner Seed Co., Inc.
Walter S. Schell, Inc.
Stollers Seed House
U. S. Seed Co., Inc.
Waller-Franklin Seed Co.
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SWEET PEAS

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Buckman, Denholm & Holden
Seed Co.
Robert Buist Company
W. Atlee Burpee Co.
Burrell Seeds, Inc.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Co.
Crosman Seed Co.
Crosman Seed Co.
Hamilton Seed & Coal Co.
Hamilton Seed & Coal Co.
Herbst Brothers
Kelly Seed Co.
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J. Chas. McCullough Seed Co.
Charles R. Moore
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
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The Page Seed Co.
Pieters-Wheeler Seed Co.
I. L. Radwaner Seed Co., Inc.

Waldo Rohnert Co.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Sherwood Seed Co.
Standard Seed Farms Co.
Stollers Seed House
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F. H. Woodruff & Sons, Inc.

NOVELTIES

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Seed Co.

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Burrell Seed, Inc.
Condon Bros., Seedsmen
Crosman Seed Corp.
L. Daehnfeldt, Ltd.
Ferry-Morse Seed Co.
The Chas. C. Hart Seed Co.
The Chas. C. Hart Seed Co.
F. Haubensak Sons
Herbst Brothers
Kelly Seed Co.
F. Lagomarsino & Sons
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J. Chas. McCullough Seed Co.
Charles R. Moore
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Charles R. Moore
The Nebraska Seed Co.
Oriental Seeds & Plants Co.
Rex D. Pearce
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Stollers Seed House
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TREE SEEDS

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Herbst Brothers
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Oriental Seeds & Plants Co.
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I. L. Radwaner Seed Co., Inc.
Walter S. Schell, Inc.
Stollers Seed House
U. S. Seed Co., Inc.

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Stollers Seed House
U. S. Seed Co., Inc.
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J. Chas McCullough Seed Co.
Nebraska Seed Co.
Robt. Nicholson Seed Co.
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L. L. Olds Seed Co.
ZINNIAS
American Bulb Co.

L. L. Olds Seed Co.

ZINNIAS

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Bodger Seed, Ltd.
Bowman Seed Co.
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Burrell Seeds, Inc.
Comstock, Ferre & Co.
Corneli Seed Co.
Ferry-Morse Seed Co.
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Chas. C. Hart Seed Co.
Herbst Brothers
Keller Seed Store
Kelly Seed Co.
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Chas. H. Lilly Co.
Wm. Macdonald Seed Co.
J. Chas. McCullough Seed Co.
John Mosbell Co.
Nebraska Seed Co.
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Northrup, King & Co., Mpls.
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Page Seed Co.
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Wholesale Garden ARTICHOKE

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Robt. Nicholson Seed Co.
L. L. Olds Seed Co.
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T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Zwaan & Van der Molen

ASPARAGUS
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Inc.

ASPARAGUS
Associated Seed Growers,
Inc.
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Buckham Denholm & Holden
Seed Co.
Robt. Buist Co.
Burgess Seed & Plant Co.
W. Atlee Burpee Co.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
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Ferry-Morse Seed Co.
Ferry-Morse Seed Co.
Holmes Seed Co.
Edgar F. Hurff Co.
Keller Seed Store
Kelly Seed Co.
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Seed Co.
Charles R. Moore
The Nebraska Seed Co.
Chot. L. Olds Seed Co.
Coriental Seeds & Plants Co.
Geo. R. Pedrick & Sons
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Walter S. Schell, Inc.
Stollers Seed Co.
T. W. Wood & Sons
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Inc.
The Barteldes Seed Co.

BEANS—BUSH

Associated Seed Growers,
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The Bowman Seed Co.
Alfred J. Brown Seed Co.
Robert Buist Co.
Burgess Seed & Plant Co.
W. Atlee Burpee Co.
Burrell Seeds, Inc.
Comstock, Ferre & Co.
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Crosman Seed Corp.
Ferry-Morse Seed Co.
Hamilton Seed Co.
Chamilton Seed Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Keller Seed Store
Kelly Seed Co.
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Seed Co.
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Michael-Leonard Seed Co.
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Northrup, King & Co.
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I. L. Radwaner Seed Co.
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S. D. Woodruff & Sons, Inc.

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Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Co.
Hamilton Seed & Coal Co.
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Holmes Seed Co.
Keller Seed Store
Kelly Seed Co.
F. Lagomarsino & Sons
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McCrea Seed Co.
Holmes Seed Co.
Michael-Leonard Seed Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Co.
Oriental Seeds & Plants Co.
The Page Seed Co.
Co.
Robt. Nicholson Seed Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Co.
Co.
Robt. Nicholson Seed Co.
Seed Co.
The Page Seed Co.
Co.
Robt. Nicholson Seed Co.
Robt. Nicholson Seed Co.
The Page Seed Co.
Seed Co.
The Page Seed Co.
Robt. Nicholson Seed Co.
Robt. Nicholson Seed Co.
Robt. Nicholson Seed Co.
Robt. Nicholson Seed Co.
Robt. Pedrick & Sons
I. L. Radwaner Seed Co.
Robter Seed House
U. S. Seed Co.
Robt Seed Co.
The Bowman Seed Co.
Robt. Buist Company
W. Atlee Burpee Co.
Co. S. Brent Seed Co.
Alfred J. Brown Seed Co.
Robt. Buist Company
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Corneli Seed Co.
Crosman Seed Co.
Condon Bros., Seedsmen
Corneli Seed Co.
Condon Bros., Seedsmen
Corneli Seed Co.
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Kimberlin Seed Co.
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Herbst Brothers
Holmes Seed Co.
Keller Seed Store
Kelly Seed Co.
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Kelly Seed Co.
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(PeTsai Chili or Wong Bek)
Associated Seed Co

CABBAGE—CHINESE
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Robert Buist Company
W. Atlee Burpee Co.
Comstock, Ferre & Co.
Corneli Seed Co.
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Herbst Brothers
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Kelly Seed Co.
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Chas. H. Lilly Co.
J. Chas. McCullough Seed Co.
Michael-Leonard Seed Co.
Michael-Leonard Seed Co.
Norbraka Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co.
L. L. Olds Seed Co.
Criental Seeds & Plants Co.
The Page Seed Co.
I. L. Radwaner Seed Co.
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T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
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Associated Seed Growers, Inc.
The Barteldes Seed Co.
The Bowman Seed Co.
C. S. Brent Seed Co.
Alfred J. Brown Seed Co.
Robert Buist Company

Burgess Seed & Plant Co.
Burrell Seeds, Inc.
W. Atlee Burpee Co.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Company
Crosman Seed Corp.
Ferry-Morse Seed Co.
H. D. Garwood Seed Co.
D. H. Gilbert Seed Co., Inc.
Hamilton Seed & Coal Co.
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Holmes Seed Co.
Keller Seed Store
Kelly Seed Co.
H. C. King & Sons
F. Lagomarsino & Sons
The J. Chas. McCullough Seed
Co.
Charles R. Moore

The J. Chas. McCullough Seed Co.
Charles R. Moore
The Nebraska Seed Co.
Robert Nicholson Seed Co.
L. L. Olds Seed Co.
Criental Seeds & Plants Co.
The Page Seed Co.
Paramount Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co., Inc.
The J. C. Robinson Seed Co.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Stollers Seed House
U. S. Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
CARROT
Associated Seed Growers, Inc.

Associated Seed Growers, Inc.
The Barteldes Seed Co.
The Bowman Seed Co.
Braslan Seed Growers Co.,

The Bowman Seed Co.
Braslan Seed Growers Co.,
Inc.
C. S. Brent Seed Co.
Alfred J. Brown Seed Co.
Robert Buist Company
W. Atlee Burpee Co.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Company
Crosman Seed Corp.
L. Daehnfeldt, Ltd.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Herbst Brothers
Holmes Seed Co.
Keller Seed Store
Kelly Seed Co.
Kimberlin Seed Co.
Norval E. Kirby
F. Lagomarsino & Sons
The Chas. H. Lilly Co.
The J. Chas. McCullough Seed
Co.
Mark Means Co.

The Chas. H. Lilly Co.
The J. Chas. McCullough Seed
Co.
Mark Means Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co.
L. L. Olds Seed Co.
Oriental Seeds & Plants Co.
The Page Seed Co.
Paramount Seed Co.
Geo. R. Pedrick & Sons
Pieters-Wheeler Seed Co.
L. L. Radwaner Seed Co.
Russell-Heckle Seed Co.
Russell-Heckle Seed Co.
Standard Seed Farms Co.
Standard Seed Fo.
Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Zwaan & Van der Molen
CAULIFLOWER
Associated Seed Co.

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Associated Seed Growers, Inc.
The Barteldes Seed Co.
J. A. Boyce Co.
Alfred J. Brown Seed Co.
Robert Buist Company
W. Atlee Burpee Co.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Company
Crosman Seed Corp.
L. Daehnfeldt, Ltd.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Herbst Brothers
Holmes Seed Store
Kelly Seed Co.
Norval E. Kirby
F. Lagomarsino & Sons
The J. Chas McCullough Seed
Co.
Charles B. Moore

Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
L. L. Olds Seed Co.
Oriental Seeds & Plants Co.

The Page Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co., Inc.
Walter S. Schell, Inc.
Stollers Seed House
U. S. Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Zwaan & Van der Molen
CELERIAC
Associated Seed Growers, Inc.

CELERIAC

Associated Seed Growers, Inc.
The Barteldes Seed Co.
Robert Buist Company
W. Atlee Burpee Co.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Company
Crosman Seed Corp.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Herbst Brothers
Holmes Seed Co.
Keller Seed Store
Kelly Seed Co.
Norval E. Kirby
F. Lagomarsino & Sons
The J. Chas. McCullough Seed
Co.
Charles B. Moore

Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Co.
L. L. Olds Seed Co.
Geo. R. Pedrick & Sons
Pieters-Wheeler Seed Co.
I. L. Radwaner Seed Co., Inc.
Waldo Rohnert Co.
Walter S. Schell, Inc.
Stollers Seed House
U. S. Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Zwaan & Van der Molen
CELERY
Associated Seed Growers, Inc.

Associated Seed Growers, Inc. The Barteldes Seed Co. Braslan Seed Growers Co., Brasian Seed Growers Co.,
Inc.
C. S. Brent Seed Co.
Robert Buist Company
W. Atlee Burpee Co.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Company
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
Chas. C. Hart Seed Co.
Keller Seed Store
Kelly Seed Co.
Kimberlin Seed Co.
H. C. King & Sons
F. Lagomarsino & Sons
The J. Chas. McCullough Seed
Co.

The J. Chas. McCullough Seed Co.
Michael-Leonard Seed Co.
John Mosbell Co.
Nebraska Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co.
L. L. Olds Seed Co.
Page Seed Co.
Pieters-Wheeler Seed Co.
I. L. Radwaner Seed Co.
J. L. Radwaner Seed Co.
Sherwood Seed Co.
Shuler & Smoak
Stollers Seed House
U. S. Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
CHICORY

Associated Seed Growers, Inc.

CHICORY

Associated Seed Growers, Inc.
The Barteldes Seed Co.
J. A. Boyce Co.
Robert Buist Co.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Co.
The Chas. C. Hart Seed Co.
The Chas. C. Hart Seed Co.
Herbst Brothers
Holmes Seed Co.
Keller Seed Store
Kelly Seed Co.
Keller Seed Store
Kelly Seed Co.
Norval E. Kirby
F. Lagomarsino & Sons
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Co.
L. L. Olds Seed Co.
Oriental Seeds & Plants Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co., Inc.
Waldo Rohnert Co.
Walter S. Schell, Inc.
Stollers Seed House
U. S. Seed Co.
F. H. Woodruff & Sons, Inc.
Zwaan & Van der Molen
COLLARD
Associated Seed Growers, Inc.
The Barteldes Seed Co.
Robert Buist Company
W. Atlee Burpee Co.
Comstock, Ferre & Co.

Condon Bros., Seedsmen
Corneli Seed Co.
Crosman Seed Corp.
Ferry-Morse Seed Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Keller Seed Store
Kelly Seed Co.
Norval E. Kirby
F. Lagomarsino & Sons
The J. Chas. McCullough Seed
Co.
Charles R. Moore Co. Charles R. Moore
John Mosbell Co.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
L. L. Olds Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co., Inc.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
U. S. Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Zwan & Van der Molen
CORN SALAD

CORN SALAD CORN SALAD
Associated Seed Growers, Inc.
The Barteldes Seed Co.
Robert Buist Co.
Comstock, Ferre & Co.
Cornell Seed Co.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
Keller Seed Store
Keller Seed Store
Kelly Seed Co.
Northrup, King & Co.
Northrup, King & Co.
Norval E. Kirby
F. Lagomarsino & Sons
The J. Chas. McCullough Seed
Co.

Co.
Michael-Leonard Seed Co.
Chas. R. Moore
Nebraska Seed Co.
L. L. Olds Seed Co.
U. S. Seed Co.
T. W. Wood & Sons
Zwaan & Van der Molen
CORN—SWEET

CORN—SWEET

Associated Seed Growers, Inc.
The Barteldes Seed Co.
The Bowman Seed Co.
C. S. Brent Seed Co.
Alfred J. Brown Seed Co.
Robert Buist Company
Burgess Seed & Plant Co.
W. Atlee Burpee Co.
C. S. Clark & Sons
Comstock, Ferre & Co.
Arthur R. Cone
Condon Bros., Seedsmen
Corneli Seed Company
Crosman Seed Corp.
Farmer Seed & Nursery Co.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Keller Seed Store
Kelly Seed Co.
F. Lagomarsino & Sons
McCabe Bros. Grain Co., Ltd.
The J. Chas. McCullough Seed
Co.
Michael-Leonard Seed Co. Michael-Leonard Seed Co.

Co.
Michael-Leonard Seed Co.
Charles R. Moore
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co.
O & M Seed Co.
L. L. Olds Seed Co.
Oriental Seeds & Plants Co.
The Page Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co., Inc.
J. C. Robinson Seed Co.
Rogers Bros. Seed Co.
Rudy-Patrick Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Stollers Seed House
U. S. Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
S. D. Woodruff & Sons, Inc.

CORN (Hybrid)

Associated Seed Growers, Inc.
The Barteldes Seed Co.
The Bowman Seed Co.
The Bowman Seed Co.
C. S. Brent Seed Co.
Robert Buist Company
W. Atlee Burpee Co.
C. S. Clark & Sons
Condon Bros., Seedsmen
Comstock, Ferre & Co.
Corneli Seed Company
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
Chas. C. Hart Seed Co.
Jacques Seed Co.
Keller Seed Store
Kelly Seed Co.
H. C. King & Sons
F. Lagomarsino & Sons
The J. Chas. McCullough Seed
Co.

Michael-Leonard Seed Co.
Chas. R. Moore
Robt. Nicholson Seed Co.
Nebraska Seed Co.
Northrup, King & Co.
O & M Seed Co.
Edgar L. Oakes & Co.
L. L. Olds Seed Co.
Page Seed Co.
I. L. Radwaner Seed Co.
J. C. Robinson Seed Co.
Stanford Seed Co.
Stanford Seed Co.
Stollers Seed House
U. S. Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.

CRESS
Associated Seed Growers, Inc.
The Barteldes Seed Co.
Robert Buist Company
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Co.
Crosman Seed Corp.
Ferry-Morse Seed Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Keller Seed Store
Norval E. Kirby
F. Lagomarsino & Sons
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Co.
L. L. Olds Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co., Inc.
Walter S. Schell, Inc.
Peter Sluis
Stollers Seed House
U. S. Seed Co.
T. W. Wood & Sons
F. W. Wood was Sons, Inc.
Zwaan & Van der Molen
CUCUMBER CRESS

Zwaan & Van der Molen

CUCUMBER

Associated Seed Growers, Inc.
The Barteldes Seed Co.
The Bowman Seed Co.
C. S. Brent Seed Co.
Alfred J. Brown Seed Co.
Robert Buist Company
Burgess Seed & Plant Co.
W. Atlee Burpee Co.
Burrell Seeds, Inc.
Comstock, Ferre & Co.
Arthur R. Cone
Condon Bros., Seedsmen
Corneli Seed Company
Crosman Seed Corp.
Ferry-Morse Seed Co.
H. D. Garwood Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Herbst Brothers
Holmes Seed Co.
Edgar F. Hurff Co.
Keller Seed Store
Kelly Seed Co.
F. Lagomarsino & Sons
The J. Chas. McCullough
Seed Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Co.
Northrup, King & Co.
L. L. Olds Seed Co.
Oriental Seeds & Plants Co.
The Page Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co.
The J. C. Robinson Seed Co.
Lawrence Robinson & Sons
Rudy-Patrick Seed Co.
Stollers Seed House
U. S. Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
DANDELION
Associated Seed Growers, Inc. **CUCUMBER**

DANDELION
Associated Seed Growers, Inc.
The Barteldes Seed Co.
Robert Buist Co.
W. Atlee Burpee Co.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Co.
Crosman Seed Corp.
Ferry-Morse Seed Co.
The Chas. C. Hart Seed Co.
Herbst Brothers
Holmes Seed Co.
Keller Seed Store
F. Lagomarsino & Sons
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Co.
L. L. Olds Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co., Inc.
Walter S. Schell, Inc.
Stollers Seed House DANDELION

U. S. Seed Co. F. H. Woodruff & Sons, Inc. DILL

U. S. Seed Co.
F. H. Woodruff & Sons, Inc.

DILL

Kimberlin Seed Co.
Pieters-Wheeler Seed Co.
Waldo Rohnert Co.

EGG PLANT

Associated Seed Growers, Inc.
The Barteldes Seed Co.
The Bowman Seed Co.
Alfred J. Brown Seed Co.
Robert Buist Company
W. Atlee Burpee Co.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Company
Crosman Seed Corp.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Herbst Brothers
Holmes Seed Co.
Edgar F. Hurff Co.
Keller Seed Store
Kelly Seed Co.
F. Lagomarsino & Sons
The J. Chas. McCullough
Seed Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
C. L. Olds Seed Co.
Oriental Seeds & Plants Co.
The Page Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co.
Walter S. Schell, Inc.
J. P. Snapp & Son
Stollers Seed House
U. S. Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
S. D. Woodruff & Sons, Inc.
S. D. Woodruff & Sons, Inc.
The Barteldes Seed Growers, Inc.
The Barteldes Seed Co.
The Barteldes Seed Co.
The Bowman Seed Co.
The Bowman Seed Co.

r. H. Woodruff & Sons, Inc.
S. D. Woodruff & Sons, Inc.
ENDIVE

Associated Seed Growers, Inc.
The Barteldes Seed Co.
The Bowman Seed Co.
Robert Buist Company
W. Atlee Burpee Co.
Comstock, Ferre & Co.
Condon Bros. Seedsmen
Corneli Seed Company
Crosman Seed Corp.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Herbst Brothers
Holmes Seed Co.
Keller Seed Store
Kelly Seed Co.
Kimberlin Seed Co.
Norval E. Kirby
F. Lagomarsino & Sons
The J. Chas. McCullough
Seed Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Company
Robert Nicholson Seed Co.
L. L. Olds Seed Co.
Geo. R. Pedrick & Sons
Pieters-Wheeler Seed Co.
I. L. Radwaner Seed Co.
I. L. Radwaner Seed Co.
Walter S. Schell, Inc.
Sherwood Seed Co.
Standard Seed Farms Co.
Stollers Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Zwaan & Van der Molen
GOURD
Associated Seed Growers, Inc.
Rodger Seeds Ltd
Rodger Seeds Ltd

Associated Seed Growers, Inc.
The Barteldes Seed Co.
Bodger Seeds, Ltd.
Buckman, Denholm & Holden Bodger Seeds, Ltd.
Buckman, Denholm & Holden
Seed Co.
Robert Buist Company
Burgess Seed & Plant Co.
W. Atlee Burpee Co.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Co.
Crosman Seed Corp.
Ferry-Morse Seed Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Keller Seed Store
Kelly Seed Co.
F. Lagomarsino & Sons
The J. Chas. McCullough
Seed Co.
Charles R. Moore
The Nebraska Seed Company
Robt. Nicholson Seed Co.
L. L. Olds Seed Co.
Oriental Seed & Plants Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co.
The J. C. Robinson Seed Co. Lawrence Robinson & Sons Walter S. Schell, Inc. Stollers Seed House U. S. Seed Co.

Stollers Seed House
U. S. Seed Co.

HERBS

Agricultural Seed Co., Ltd.
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Buckman, Denholm & Holden
Seed Co.
Robert Buist Company
Burrell Seeds, Inc.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Co.
Crosman Seed Corp.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Hungarian Farmers Co-op.
Ass'n.
Keller Seed Store
Kelly Seed Co.
Norval E. Kirby
F. Lagomarsino & Sons
The J. Chas. McCullough
Seed Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Company
Robt. Nicholson Seed Co.
Criental Seeds & Plants Co.
The Page Seed Co.
Geo. R. Pedrick & Sons
Pieters-Wheeler Seed Co.
(Dill only)
I. L. Radwaner Seed Co.
(Dill only)
I. L. Radwaner Seed Co.
Tie. Standard Seed Farms Co.
(Sweet Basil)
Stollers Seed House
U. S. Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Zwaan & Van der Molen

KALE
Associated Seed Growers, Inc. HERBS

KALE

r. H. Woodruff & Sons, Inc.
Zwaan & Van der Molen
KALE
Associated Seed Growers, Inc.
The Barteldes Seed Co.
Benton Mill & Whse. Co.
J. A. Boyce Co.
C. S. Brent Seed Co.
Robert Buist Company
W. Atlee Burpee Co.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Co.
Crosman Seed Corp.
L. Daehnfeldt, Ltd.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Herbst Brothers
Holmes Seed Co.
Keller Seed Store
Kelly Seed Co.
Norval E. Kirby
F. Lagomarsino & Sons
Leckenby Seed Co.
The Chas. H. Lilly Co.
The Chas. H. Lilly Co.
The J. Chas. McCullough
Seed Co.
Mark Means Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
L. L. Olds Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co.
Walter S. Schell, Inc.
Peter Sluis
Stollers Seed House
U. S. Seed Co.
T. W. Woodruff & Sons, Inc.
Zwaan & Van der Molen

KOHLRABI
Associated Seed Growers, Inc.

KOHLRABI

Associated Seed Growers, Inc.
The Barteldes Seed Co.
The Bowman Seed Co.
J. A. Boyce Co.
Robert Buist Company
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Company
Crosman Seed Corp.
L. Daehnfeldt, Ltd.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Herbst Brothers
Holmes Seed Co.
Keller Seed Store
Kelly Seed Co.
Norval E. Kirby
F. Lagomarsino & Sons
Leckenby Seed Co.
The Chas. H. Lilly Co.
The J. Chas. McCullough
Seed Co. KOHLRABI

Charles R. Moore
John Mosbell Co.
The Nebraska Seed Company
Robt. Nicholson Seed Co.
L. L. Olds Seed Co.
The Page Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co., Inc.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
U. S. Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Zwaan & Van der Molen

LEEK
Associated Seed Growers, Inc.
The Barteldes Seed Co.
Robert Buist Company
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Company
Crosman Seed Corp.
L. Daehnfeldt, Ltd.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Herbst Brothers
Holmes Seed Co.
Keller Seed Store
Kelly Seed Co.
Norval E. Kirby
F. Lagomarsino & Sons
The J. Chas. McCullough Seed
Co.
Charles R. Moore

The J. Chas. McCullough Seed Co., Charles R. Moore John Mosbell Co., The Nebraska Seed Company L. L. Olds Seed Co. Oriental Seeds & Plants Co. The Page Seed Co., Paramount Seed Co., Paramount Seed Co., Faramount Seed Co., Inc. Waldo Rohnert Co. Waldo Rohnert Co. Waldo Rohnert Co. Walter S. Schell, Inc. Standard Seed Farms Co. Stollers Seed House U. S. Seed Co., T. W. Wood & Sons F. H. Woodruff & Sons, Inc. Zwaan & Van der Molen LETTUCE

LETTUCE

LETTUCE

Associated Seed Growers, Inc.
The Barteldes Seed Co.
The Bowman Seed Co.
Braslan Seed Growers Co.,
Inc.
C. S. Brent Seed Co.
Alfred J. Brown Seed Co.
Robert Buist Company
W. Atlee Burpee Co.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Arthur R. Cone
Corneli Seed Company
Crosman Seed Corp.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
Hamilton Seed & Coal Co.
Herbst Brothers
Holmes Seed Co.
Keller Seed Store
Kelly Seed Co.
Kimberlin Seed Co.
F. Lagomarsino & Sons
The J. Chas. McCullough Seed
Co.
Charles R. Moore

F. Lagomarsino & Sons
The J. Chas. McCullough Seed
Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed So.
Robt. Nicholson Seed Co.
Northrup, King & Co.
L. L. Olds Seed Co.
Oriental Seeds & Plants Co.
The Page Seed Co.
Geo. R. Pedrick & Sons
Pieters-Wheeler Seed Co.
I. L. Radwaner Seed Co.
Rusdy-Patrick Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Standard Seed Farms Co.
Stollers Seed House
U. S. Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
S. D. Woodruff & Sons, Inc.
MANGEL
Associated Seed Growers, Inc.
The Barteldes Seed Co.
J. A. Boyce Co.
C. S. Brent Seed Co.
Robert Buist Company
Alf Christianson
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Company
Crosman Seed Corp.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Herbst Brothers
Holmes Seed Co.

Keller Seed Store
Kelly Seed Co.
Norval E. Kirby
F. Lagomarsino & Sons
Leckenby Seed Co.
The Chas. H. Lilly Co.
The J. Chas. McCullough Seed
Co.

The Chas. H. Lilly Co.
The J. Chas. McCullough Seed Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
L. L. Olds Seed Co.
The Page Seed Co.
Paramount Seed Co.
Geo. R. Pedrick & Sons
Pieters-Wheeler Seed Co.
I. L. Radwaner Seed Co., Inc.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Peter Sluis
Standard Seed Farms Co.
Stollers Seed House
U. S. Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Zwaan & Van der Molen
MUSKMELON
Associated Seed Growers, Inc.
The Bartaldes Seed Co.

MUSKMELON

Associated Seed Growers, Inc.
The Barteldes Seed Co.
The Bowman Seed Co.
C. S. Brent Seed Co.
Alfred J. Brown Seed Co.
Robert Buist Company
Burgess Seed & Plant Co.
W. Atlee Burpee Co.
Burrell Seeds, Inc.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Cornell Seed Company
Crosman Seed Corp.
Ferry-Morse Seed Co.
H. D. Garwood Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Edgar F. Hurff Co.
Keller Seed Store
Kelly Seed Co.
F. Lagomarsino & Sons
The J. Chas. McCullough Seed
Co.
Charles R. Moore

Kelly Seed Co.
F. Lagomarsino & Sons
The J. Chas. McCullough Seed
Co.
Charles R. Moore
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co.
L. L. Olds Seed Co.
Oriental Seeds & Plants Co.
The Page Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co.
Lawrence Robinson & Sons
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Stollers Seed House
U. S. Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
MUSTARD
Agricultural Seed Co., Ltd.
Associated Seed Growers, Inc.
The Barteldes Seed Co.
J. A. Boyce Co.
C. S. Brent Seed Co.
Robert Buist Company
W. Atlee Burpee Co.
Condon Bros., Seedsmen
Corneli Seed Co.
Crosman Seed Co.
Hamilton Seed & Coal Co.
Hamilton Seed & Coal Co.
Herbst Brothers
Holmes Seed Co.
Herbst Brothers
Holmes Seed Co.
Keller Seed Co.
Kimberlin Seed Co.
Kimberlin Seed Co.
Norval E. Kirby
F. Lagomarsino & Sons
Leckenby Seed Co.
The J. Chas. McCullough Seed
Co.
The J. Chas. McCullough Seed
Co.
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Corneli Seed Company
Crosman Seed Company
Crosman Seed Co.
Hamilton Seed Co.
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Corneli Seed Co.
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Corneli Seed Co.
Ferry-Morse Seed Co.
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Hollenbach's Seed Store
Hollenbach's Seed Store
Kelly Seed Co.
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Corneli Seed Company
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Griswold Seed & Nursery Co.
Hamilton Seed & Coal Co.
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Holmes Seed Co.
Keller Seed Store
Kelly Seed Co.
F. Lagomarsino & Sons
The Chas. H. Lilly Co.
The J. Chas. McCullough Seed
Co.
Michael-Leonard Seed Co.

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Robt. Nicholson Seed Co.
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The Page Seed Co.
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Cornell Seed Co.
Herbst Brothers
Holmes Seed Co.
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Holmes Seed Co.
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Kelly Seed Co.
Kimberlin Seed Co.
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Kobt. Nicholson Seed Co.
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F. Lagomarsino & Sons
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Kelly Seed Co.
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Burrell Seeds, Inc.
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Hamilton Seed & Coal Co.
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Holmes Seed Co.
Hungarian Farmers Co-op.
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F. Lagomarsino & Sons
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Comstock, Ferre Co.,
Condon Bros., Seedsmen
Corneli Seed Company
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Leckenby Seed Co.
The Chas. H. Lilly Co.
The J. Chas. McCullough Seed
Co.

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Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Peter Sluis
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Alfred J. Brown Seed Co.
Co. S. Brent Seed Co.
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Corneli Seed Company
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H. D. Garwood Seed Co.
Hamilton Seed & Coal Co.
Hamilton Seed & Coal Co.
Holmes Seed Co.
Edgar F. Hurff Co.
Keller Seed Store
Kelly Seed Co.
F. Lagomarsino & Sons
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Co.
Charles R. Moore
The Nebraska Seed So.

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Co.
Charles R. Moore
The Nebraska Seed So.
Robt. Nicholson Seed Co.
Northrup, King & Co.
L. L. Olds Seed Co.
Oriental Seeds & Plants Co.
The Page Seed Co.
Paramount Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co., Inc.
The J. C. Robinson Seed Co.
Lawrence Robinson & Sons
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
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Robert Buist Company
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Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Co.
Crosman Seed Corp.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
Hamilton Seed & Coal Co.
Herbst Brothers
Holmes Seed Co.
Keller Seed Store
Kelly Seed Co.
Kimberlin Seed Co.
Norval E. Kirby
F. Lagomarsino & Sons
Leckenby Seed Co.
The Chas. H. Lilly Co.
The J. Chas. McCullough Seed
Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Co.
Robt. Nicholson Seed Co. SWISS CHARD

L. L. Olds Seed Co.
The Page Seed Co.
Paramount Seed Co.
Geo. R. Pedrick & Sons
Pieters-Wheeler Seed Co.
I. L. Radwaner Seed Co., Inc.
Waldo Rohnert Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Sherwood Seed Co.
Standard Seed Farms Co.
Stollers Seed House
U. S. Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Zwan & Van der Molen
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Associated Seed Growers, Inc.

TOMATO

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The Bowman Seed Co.
C. S. Brent Seed Co.
Alfred J. Brown Seed Co.
Alfred J. Brown Seed Co.
Robert Buist Company
Burgess Seed & Plant Co.
W. Atlee Burpee Co.
Burrell Seeds, Inc.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Cornell Seed Company
Crosman Seed Corp.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Herbst Brothers
Holmes Seed Co.
Edgar F. Hurff Co.
Keller Seed Store
Kelly Seed Co.
F. Lagomarsino & Sons
Law, Somner Pty., Ltd.
The J. Chas. McCullough Seed
Co.
Charles R. Moore
John Mosbell Co.

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Charles R. Moore
John Mosbell Co.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
L. L. Olds Seed Co.
Oriental Seeds & Plants Co.
The Page Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co., Inc.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Francis C. Stokes Co.
Stollers Seed House
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Joseph White Co.
T. W. Woodruff & Sons, Inc.
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Alfred J. Brown Seed Co.
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Condon Bros., Seedsmen
Corneli Seed Co.
Crosman Seed Corp.
L. Daehnfeldt, Ltd.
Ferry-Morse Seed Co.
Herbst Brothers
Holmes Seed Co.
Herbst Brothers
Holmes Seed Co.
Keller Seed Store
Kelly Seed Co.
Norval E. Kirby
F. Lagomarsino & Sons
Leckenby Seed Co.
The Chas. H. Lilly Co.
Mark Means Co.
Michael-Leonard Seed Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co.
L. L. Olds Seed Co.
Geo. R. Pedrick & Sons
Pieters-Wheeler Seed Co.
Russell-Heckle Seed Co.
Russell-Heckle Seed Co.
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The Nebraska Seed Co.
Robt. Nicholson Seed Co.
L. L. Olds Seed Co.
Oriental Seeds & Plants Co.
Paramount Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co., Inc.
The J. C. Robinson Seed Co.
Lawrence Robinson & Sons
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Stollers Seed House
U. S. Seed Co.
T. W. Wood & Sons
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WATERMELON
Associated Seed Growers, Inc.

WATERMELON

Associated Seed Growers, Inc.
The Barteldes Seed Co.
The Bowman Seed Co.
C. S. Brent Seed Co.
Alfred J. Brown Seed Co.
Alfred J. Brown Seed Co.
Alfred J. Brown Seed Co.
Robert Buist Company
Burgess Seed & Plant Co.
W. Atlee Burpee Co.
Burrell Seeds, Inc.
Comstock, Ferre & Co.
Condon Bros. Seedsmen
Cornell Seed Company
Crosman Seed Corp.
Ferry-Morse Seed Co.
H. D. Garwood Seed Co.
D. H. Gilbert Seed Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Edgar F. Hurff Co.
Keller Seed Store
Kelly Seed Co.
F. Lagomarsino & Sons
The J. Chas McCullough Seed
Co.
Charles R. Moore
The Nebraska Seed Co. The J. Chas McCunough Seed Co.
Charles R. Moore
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
L. L. Olds Seed Co.
Oriental Seeds & Plants Co.
The Page Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co., Inc.
The J. C. Robinson Seed Co.
Lawrence Robinson & Sons
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Simpson Nursery Co.
Stollers Seed House
U. S. Seed Co.
T. W. Wood & Sons
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Wholesale Field Seed

ALFALFA
The Ackerman Co.
Advance Seed Co.
Agricultural Seed Co., Ltd.
The Barteldes Seed Co.
The Belt Seed Co.
Benton Mill & Whse. Co.
Benton Mill & Whse. Co.
Blue Mt. Seed Growers Assn.
N. Bonahoom Seed Co.
The Bowman Seed Co.
Co. S. Brent Seed Co.
Robt. Buist Company
Capital Fuel, Feed & Seed Co.
Cargill, Inc.
Roscoe J. Carl & Son
Arthur R. Cone
Condon Bros., Seedsmen
Corneli Seed Co.
The Albert Dickinson Co.
Craver-Dickinson Seed Co.
Davenport Seed Co.
J. L. Donley & Bro.
Duryea Seed Co., Inc.
Leslie Edgerton
A. Ertag, Inc.
Ferry-Morse Seed Co.
Funk Bros. Seed Co.
Goldberg Seed & Feed Co.
The Gooding Seed Co.
Griswold Seed & Nursery Co.
Hamilton Seed & Coal Co.

Hungarian Farmers Co-op.
Assn.
Edgar F. Hurff Co.
Idaho Grimm Alfalfa Seed
Growers Assn., Inc.
International Seed, Inc.
International Seed, Inc.
Interstate Seed & Grain Co.
Jenks-White Seed Co.
Keller Seed Store
Kelly Seed Co.
H. C. King & Sons. Inc.
F. Lagomarsino & Sons
Lakin Seed Co.
R. E. Lambert & Sons
Land O'Lakes Creameries,
Inc. R. E. Lambert & Sons
Land O'Lakes Creameries,
Inc.
Law, Somner Pty., Ltd.
Lewis Seed Co.
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Louisville Seed Co.
Magill & Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
McCabe Bros. Grain Co., Ltd.
The J. Chas. McCullough Seed
Co.
Michael-Leonard Seed Co.
Montana Seed Co.
Charles R. Moore
National Seed Co.
Charles R. Moore
National Seed Co.
Northern Field Seed Co.
Northern Field Seed Co.
Northrup, King & Co.
Northrup, King & Co.
Northwup, King & Co.
Ouren Seed Co.
The Page Seed Co.
Peppard Seed Co.
The Page Seed Co.
The Page Seed Co.
The Page Seed Co.
The Philadelphia Seed Co.
The Philadelphia Seed Co.
The Philadelphia Seed Co.
Pururty Seed & Grain Co.
Purcell Seed & Grain Co. The Philadelphia Seed Co., Inc.
Prunty Seed & Grain Co.
Prunty Seed & Grain Co.
Purcell Seed Co.
I. L. Radwaner Seed Co., Inc.
Ross Seed Co.
Rudy-Patrick Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
E. F. Sanguinetti
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
J. M. Schultz Seed Co.
O. M. Scott & Sons Co.
Seaboard Seed Co.
Seadwick Alfalfa Mills
Geo. P. Sexauer & Son
Shultz Seed Co., Inc.
Sommer Bros. Seed Co.
The Stanford Seed Co.
Steele Briggs Seed Co.
Steele Briggs Seed Co.
Steele Briggs Seed Co.
Tun Stanford Seed Co.
Valker-Christensen Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Yuma Co. Farmers Mktg
Assn.
AUSTRIAN WINTER

The Chas. C. Hart Seed Co. Holmes Seed Co. Hungarian Farmers Co-op.

AUSTRIAN WINTER PEAS

PEAS
Advance Seed Co.
Agricultural Seed Co., Ltd.
The Belt Seed Co.
Benton Mill & Whse. Co.
Blue Mt. Seed Growers Assn.
Condon Bros., Seedsmen
Corneli Seed Co.
International Seed, Inc.
Jenks-White Seed Co.
Keller Seed Store
F. Lagomarsino & Sons
R. E. Lambert & Sons
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Ed F. Mangelsdorf & Bro.,
Inc.

Julius Loewith, Inc.
Ed F. Mangelsdorf & Bro.,
Inc.
Mark Means Co.
Charles R. Moore
Robt. Nicholson Seed Co.
Northrup, King & Co. (Bomberger Div.)
Paramount Seed Co.
I. L. Radwaner Seed Co.
II. L. Radwaner Seed Co.
Wm. G. Scarlett & Co.
Snelson Seed Co.
Transcontinental Seed, Inc.
T. W. Wood & Sons
BEGGARWEED—
FLORIDA

FLORIDA

FLORIDA

D. H. Gilbert Seed Co., Inc. Grand Island Nurseries R. E. Lambert & Sons Simpson Nursery Co.

T. W. Wood & Sons BENT GRASS

Advance Seed Co.
Associated Seed Growers, Inc. The Barteldes Seed Co.
The Belt Seed Co.
The Bowman Seed Co.

Robt. Buist Co.
Cargill, Inc.
Arthur R. Cone
Corneli Seed Co.
Craver-Dickinson Seed Co.
The Albert Dickinson Co.
J. L. Donley & Bro.
Duryea Seed Co., Inc.
Engbretson Seed Co.
A. Ertag, Inc.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
International Seed, Inc.
Jenks-White Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
Lewis & Clark Seed Co., Inc.
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Ed. F. Mangelsdorf & Bro.,
Inc.
The J. Chas. McCullough Seed

Ed. F. Mangelsdorf & Bro., Inc.
The J. Chas. McCullough Seed
Co.
N. V. H. Mommersteeg's
Zaadteelt en Zaadhandel
Charles R. Moore
Robt. Nicholson Seed Co.
Northrup, King & Co. (Bomberger Div.)
L. L. Olds Seed Co.
Ouren Seed Co.
A. S. Paterson & Coy, Ltd.
The Philadelphia Seed Co., Inc. The Philadelphia Seed Co., Inc.
Inc.
I. L. Radwaner Seed Co., Inc.
Rudy-Patrick Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
O. M. Scott & Sons Co.
The Stanford Seed Co.
Transcontinental Seed, Inc.
Twin City Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Wright, Stephenson & Coy,
Ltd.
BENT STOLONS

BENT STOLONS
O. M. Scott & Sons Co.
Stollers Seed House
F. H. Woodruff & Sons, Inc.
BERMUDA GRASS

BERMUDA GRASS
Advance Seed Co.
The Barteldes Seed Co.
The Belt Seed Co.
The Belt Seed Co.
The Bowman Seed Co.
Robt. Buist Co.
Capital Fuel, Feed & Seed Co.
Corneli Seed Co.
Cuff-Archias Seed Co.
Duryea Seed Co., Inc.
Ferry-Morse Seed Co.
International Seed, Inc.
Keller Seed Store
F. Lagomarsino & Sons
R. E. Lambert & Sons
Julius Loewith, Inc.
Ed. F. Mangelsdorf & Bro.,
Inc. R. E. Lambert & Sons
Julius Loewith, Inc.
Ed. F. Mangelsdorf & Bro.,
Inc.
The J. Chas. McCullough Seed
Seed Co.
Charles R. Moore
Robt. Nicholson Seed Co.
Northrup, King & Co. (Bomberger Div.)
Purcell Seed Co.
I. L. Radwaner Seed Co., Inc.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
E. F. Sanguinetti
Wm. G. Scarlett & Co.
Sedgwick Alfalfa Mills
Snelson Seed Co.
Stollers Seed House
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Yuma Co. Farmers Mktg.
Assn.
BIRDSRAPE OR

BIRDSRAPE OR RUEBSEN

RUEBSEN

Corneli Seed Co., Inc.
Duryea Seed Co., Inc.
Julius Loewith, Inc.
Ed. F. Mangelsdorf & Bro.,
Inc.
The J. Chas. McCullough Seed
Co.
Charles R. Moore
The Nebraska Seed Co.
Philadelphia Seed Co.
Wm. G. Scarlett & Co.
Stollers Seed House
T. W. Wood & Sons
BLUE GRASS
The Ackerman Co.

BLUE GRASS
The Ackerman Co.
Associated Seed Growers, Inc.
The Belt Seed Co.
The Barteldes Sed Co.
The Bowman Seed Co.
C. S. Brent Seed Co.
Robt. Buist Co.
Cargil, Inc.
Arthur R. Cone
Condon Bros., Seedsman
Corneli Seed Co.
Craver-Dickinson Seed Co.

The Albert Dickinson Co.
J. L. Donley & Bro.
Duryea Seed Co., Inc.
Leslie Edgerton
A. Ertag, Inc.
Ferry-Morse Seed Co.
Ging & Company
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Hungarian Farmers Coop.
Assn.
International Seed, Inc.
Jenks-White Seed Co.
Geo. Keller & Sons
Kelly Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
Lewis Seed Co.
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Louisville Seed Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
The J. Chas. McCullough
Seed Co.
Chas. R. Moore
National Seed Co., Inc.
The Nebraska Seed Co.
Northern Field Seed Co.
Northern Field Seed Co.
Northrup, King & Co. (Bomberger Div.)
Northwestern Seed Co.
The Page Seed Co.
Peppard Seed Co.
The Philadelphia Seed Co.
The Printy Seed & Grain Co.
Purcell Seed & Grain Co.

The Philadelphia Seed Co., Inc.
Inc.
Prunty Seed & Grain Co.
Purcell Seed Co.
I. L. Radwaner Seed Co., Inc.
Ross Seed Co.
Rudy-Patrick Seed Co.
Rudy-Patrick Seed Co.
Walter S. Schell, Inc.
J. M. Schultz Seed Co.
Seaboard Seed Co.
Geo. P. Sexauer & Son
O. M. Scott & Sons Co.
Shultz Seed Co., Inc.
Sommer Bros. Seed Co.
Sphar & Gay Seed Co.
The Stanford Seed Co.
Steele, Briggs Seed Co.
Steele, Briggs Seed Co.
Twin City Seed Co.
Twin City Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
BROME GRASS BROME GRASS

BROME GRASS

Agricultural Seed Co., Ltd.
The Barteldes Seed Co.
The Belt Seed Co.
Blue Mt. Seed Growers Assn.
The Bowman Seed Co.
Cargill, Inc.
Corneli Seed Co.
Craver-Dickinson Seed Co.
The Albert Dickinson Co.
Duryea Seed Co., Inc.
Leslie Edgerton
Ferry-Morse Seed Co.
Goldberg Seed & Feed Co.
Goldberg Seed & Feed Co.
Griswold Seed & Nursery Co.
Hamilton Seed & Coal Co.
Hungarian Farmers Co-Op.
Assn.
International Seed, Inc.
Interstate Seed & Grain Co.
Jenks-White Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
Land O' Lakes Creameries,
Inc.
Julius Loewith, Inc.

F. Lagomarsino & Sons
Land O' Lakes Creameries,
Inc.
Julius Loewith, Inc.
Magill & Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
McCabe Bros. Grain Co., Ltd.
The J. Chas. McCullough
Seed Co.
Mark Means Co.
Michael-Leonard Seed Co.
Chas. R. Moore
The Nebraska Seed Co.
Newday Seeds, Inc.
Northern Field Seed Co.
Northrup, King & Co., (Bomberger Div.)
Northrup, King & Co., Mpls.
Northwestern Seed Co.
L. L. Olds Seed Co.
Ouren Seed Co.
Purcell Seed Co.
Purcell Seed Co.
Furcell Seed Co.
Seedgwick Alfalfa Mills
Geo. P. Sexauer & Son
The Stanford Seed Co.
Steele, Briggs Seed Co., Ltd.

Stollers Seed House
Twin City Seed Co.
Valker-Christensen Co.
F. H. Woodruff & Sons, Inc.
CANE
The Barteldes Seed Co.
The Belt Seed Co.
N. Bonahoom Seed Co.
The Bowman Seed Co.
Cars Seed Co.
Robt. Buist Co.
Cargill, Inc.
Corneli Seed Co.
The Albert Dickinson Co.
Funk Bros. Seed Co.
Griswold Seed & Nursery Co.
Hamilton Seed & Coal Co.
Holmes Seed Co.
International Seed, Inc.
Keller Seed Store
Kelly Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
Lewis Seed Co.
Louisville Seed Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
The J. Chas. McCullough
Seed Co.
Chas. R. Moore
The Nebraska Seed Co.
Northwestern Seed Co.
Northwestern Seed Co.
Ouren Seed Co.
Peppard Seed Co.
Peppard Seed Co.
Poss Seed Co.
Pass Seed Co.
Poss Seed Co.
Poss Seed Co.
Poss Seed Co.
Pass Seed Co.
Poss
Inc

Inc.
Purcell Seed Co.
Purcell Seed Co.
Russ Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
Sedgwick Alfalfa Mills
George P. Sexauer & Son
Snelson Seed Co.
The Stanford Seed Co.
Stollers Seed House
Twin City Seed Co.
Valker-Christensen Co.
T. W. Wood & Sons

CARPET GRASS

(Pasnalum Compression

(Paspalum Compressum)

(Paspalum Compressum)
R. E. Lambert & Sons
Law, Somner Pty., Ltd.
Julius Loewith, Inc.
McHutchison & Co.
Chas. R. Moore
Robt. Nicholson Seed Co.
W. T. Nolin
Wm. G. Scarlett & Co.
T. W. Wood & Sons
CLOVER—ALSIKE
The Ackerman Co.
Agricultural Seed Co., Ltd.
The Belt Seed Co.
Benton Mill & Whse. Co.
Blue Mountain Seed Growers
Assn.

Benton Mill & Whse. Co.
Blue Mountain Seed Growers
Assn.
C. S. Brent Seed Co.
Robert Buist Company
Capital Fuel, Feed & Seed Co.
Cargill, Inc.
L. Daehnfeldt, Ltd.
The Albert Dickinson Co.
J. L. Donley & Bro.
A. Ertag, Inc.
Roscoe J. Carl & Son
Arthur R. Cone
Condon Bros., Seedsmen
Corneli Seed Co.
Craver-Dickinson Seed Co.
Duryea Seed Co., Inc.
Leslie Edgerton
Farmer Seed & Nursery Co.
Ferry-Morse Seed Co.
Funk Bros. Seed Co.
Goldberg Seed & Feed Co.
The Gooding Seed Co.
Huniton Seed Co.
Henry Hirsch & Sons, Inc.
Holmes Seed Co.
Hungarian Farmers Co-Op.
Assn.
International Seed, Inc.
Interstate Seed & Grain Co.
Jenks-White Seed Co.
Geo. Keller & Sons
Kelly Seed Co.
F. Lagomarsino & Sons
Land O'Lakes Creameries,
Inc.
Lewis Seed L.

Land O Lan Inc. Lewis Seed Co. The Chas. H. Lilly Co. Julius Loewith, Inc. Louisville Seed Co. McCabe Bros. Grain Co., Ltd. The J. Chas. McCullough Seed Co. Magill & Co.

Magin & Co.
Ed. F. Mangelsdorf & Inc.
Mark Means Co.
Chas. R. Moore
National Seed Co., Inc.
The Nebraska Seed Co.

Robt. Nicholson Seed Co.
Northern Field Seed Co.
Northrup, King & Co., (Bomberger Div.)
Northrup, King & Co., Mpls.
Northwestern Seed Co.
L. L. Olds Seed Co.
The O & M Seed Co.
The Page Seed Co.
The Page Seed Co.
The Philadelphia Seed Co.
The Philadelphia Seed Co.
Inc.
Prunty Seed & Grain Co.
Prurcell Seed Co., Inc.
I. L. Radwaner Seed Co., Inc.
I. L. Radwaner Seed Co.
Rudy-Patrick Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
J. M. Schultz Seed Co.
Geo. P. Sexauer & Son
Shultz Seed Co., Inc.
Sommer Bros. Seed Co.
Steele, Briggs Seed Co.
Steele, Briggs Seed Co.
Twin City Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
CLOVER—ALYCE

CLOVER—ALYCE
The Belt Seed Co.
Duryea Seed Co., Inc.
Grand Island Nurseries
The Chas. C. Hart Seed Co.
International Seed, Inc.
Kelly Seed Co.
R. E. Lambert & Sons
Chas. R. Moore
Robert Nicholson Seed Co.
L. L. Olds Seed Co.
I. L. Radwaner Seed Co., Inc.
Russell-Heckle Seed Co.
Snelson Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
CLOVER—BURR

CLOVER—BURR

CLOVER—BURR
Advance Seed Co.
The Belt Seed Co.
Capital Fuel, Feed & Seed Co.
Ferry-Morse Seed Co.
International Seed, Inc.
Keller Seed Store
F. Lagomarsino & Sons
R. E. Lambert & Sons
Chas. R. Moore
Robt. Nicholson Seed Co.
Northrup. King & Co. (Bomberger Div.)
Ostberg Seed Co.
Paramount Seed Co.
Russell-Heckle Seed Co.
Stollers Seed House
T. W. Wood & Sons
CLOVER—CRIMSON

CLOVER—CRIMSON

CLOVER—CRIMSON

Advance Seed Co.
Agricultural Seed Co., Ltd.
The Belt Seed Co.
C. S. Brent Seed Co.
Robert Buist Company
Capital Fuel, Feed & Seed Co.
Condon Bros., Seedsmen
Corneli Seed Co.
Craver-Dickinson Seed Co.
L. Daehnfeldt, Ltd.
The Albert Dickinson Co.
Duryea Seed Co., Inc.
A. Ertag, Inc.
Ferry-Morse Seed Co.
Ging & Company
The Chas. C. Hart Seed Co.
Hungarian Farmers Co-Op.
Assn.
International Seed, Inc.
Jenks-White Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
Lewis Seed Co.
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Louisville Seed Co.
The J. Chas. McCullough
Seed Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
N. V. H. Mommersteeg's Ed. F. Mangelsdorf & Bro., Inc.
N. V. H. Mommersteeg's Zaadteelt & Zaadhandel Chas. R. Moore
National Seed Co., Inc.
Robt. Nicholson Seed Co.
Ostberg Seed Co.
The Philadelphia Seed Co., Inc.
Purcell Seed Co. Inc.
Purcell Seed Co.
L. L. Radwaner Seed Co., Inc.
Ross Seed Co., Inc.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
J. M. Schultz Seed Co.
Seaboard Seed Co.
Shultz Seed Co.
Shultz Seed Co., Inc.
Snelson Seed Co.

Transcontinental Seed, Inc.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
CLOVER—LADINO
Advance Seed Co.
The Belt Seed Co.
Blue Mountain Seed Growers

Blue Mountain Seed Growers
Assn.
Capital Fuel, Feed & Seed Co.
Arthur R. Cone
The Albert Dickinson Co.
Craver-Dickinson Seed Co.
Duryea Seed Co., Inc.
Ferry-Morse Seed Co.
The Gooding Seed Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
International Seed, Inc.
Jenks-White Seed Co.
Josephine Growers Co-Op.
Assn.

Josephine Growers Co-Op.
Assn.
Kelly Seed Co.
F. Lagomarsino & Sons
The Chas. H. Lilly Co.
The J. Chas. McCullough
Seed Co.
Mark Means Co.
Chas. R. Moore
Northrup, King & Co. (Bomberger Div.)
Ostberg Seed Co.
Paramount Seed Co.
The Philadelphia Seed Co.
Inc.
Russell-Heckle Seed Co.

Inc.
Russell-Heckle Seed Co.
William G. Scarlett & Co.
Walter S. Schell, Inc.
Seaboard Seed Co.
Transcontinental Seed, Inc.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
CLOVER—MAMMOTH
RED

Ackerman Co.
C. S. Brent Seed Co.
Cargill, Inc.
Roscoe J. Carl & Son
Capital Fuel, Feed & Seed Co.
Corneli Seed Co.
Craver-Dickinson Seed Co.
Caryer-Dickinson Co.
Davenport Seed Co.
Albert Dickinson Co.
Duryea Seed Co., Inc.
Leslie Edgerton
Funk Bros. Seed Co.
Ging & Company
Hamilton Seed & Coal Co.
International Seed, Inc.
Jenks-White Seed Co.
Geo. Keller & Sons
Kelly Seed Co.
H. C. King & Sons
F. Lagomarsino & Sons
R. E. Lambert & Sons
Chas, H. Lilly Co.
Julius Loewith, Inc.
Louisville Seed Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
McCabe Bros. Grain Co., Ltd.
The J. Chas. McCullough
Seed Co.
Michael-Leonard Seed Co.
Chas, R. Moore
National Seed Co., Inc.
Nebraska Seed Co.
Northwestern Seed Co.
Onorthrup, King & Co.
Northwestern Seed Co.
Peppard Seed Co.
Peppard Seed Co.
Peppard Seed Co.
Peppard Seed Co.
Philadelphia Seed Co.
Peppard Seed Co.
Ross Seed Co.
Peppard Seed Co.
Seaboard Seed Co.
Co. M. Scott & Sons Co.
Seaboard Seed Co.
Seaboard Seed Co.
Seed Co.
Geo. P. Sexauer & Son
The Stanford Seed Co.
Steele, Briggs Seed Co., Ltd.
Stollers Seed House
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Wright, Stephenson & Coy,
Ltd.

CLOVER—PERSIAN

CLOVER—PERSIA
Corneli Seed Co.
Duryea Seed Co., Inc.
F. Lagomarsino & Sons
R. E. Lambert & Sons
W. T. Nolin
CLOVER—RED

The Ackerman Co.
Agricultural Seed Co., Ltd.
The Barteldes Seed Co.
The Belt Seed Co.
Benton Mill & Whse. Co.
Blue Mountain Seed Growers

Assn.
C. S. Brent Seed Co.
Robt. Buist Co.
Capital Fuel, Feed & Seed Co.
Cargill, Inc.
Roscoe J. Carl & Son

Arthur R. Cone
Condon Bros., Seedsmen
Corneli Seed Co.
Craver-Dickinson Seed Co.
L. Daehnfeldt, Ltd.
Davenport Seed Co.
The Albert Dickinson Co.
J. L. Donley & Bro.
Duryea Seed Co.
Leslie Edgerton
A. Ertag, Inc.
Farmer Seed & Nursery Co.
Ferry-Morse Seed Co.
Funk Bros. Seed Co.
The Gooding Seed Co.
Griswold Seed & Nursery Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Henry Hirsch & Sons, Inc.
Holmes Seed Co.
Hungarian Farmers Co-Op.
Assn.

Assn.
Idaho Grimm Alfalfa Seed
Growers Assn., Inc.
International Seed, Inc.
Interstate Seed & Grain Co.
Jenks-White Seed Co.
Kelly Seed Co.
Geo. Keller & Sons
H. C. King & Sons, Inc.
F. Lagomarsino & Sons
R. E. Lambert & Sons
Land O'Lakes Creameries,
Inc.

Inc. Lewis Seed Co. The Chas. H. Lilly Co. Julius Loewith, Inc. Louisville Seed Co. Ed. F. Mangelsdorf & Bro.,

Julius Loewith, Inc.
Louisville Seed Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
McCabe Bros. Grain Co.. Ltd.
The J. Chas. McCullough
Seed Co.
Magill & Co.
N. V. H. Mommersteeg's
Zaadteelt en Zaadhandel
Montana Seed Co.
Chas. R. Moore
National Seed Co., Inc.
The Nebraska Seed Co.
Robert, Nicholson Seed Co.
W. T. Nolin
Northern Field Seed Co.
Northrup, King & Co., Mpls.
Northwestern Seed Co.
L. L. Olds Seed Co.
Chase Co.

CLOVER—STRAWBERRY Blue Mountain Seed Growers

Assn. F. Lagomarsino & Sons F. H. Woodruff & Sons, Inc.

CLOVER-**SUBTERRANEAN** Law, Somner Pty., Ltd. CLOVER-SWEET

CLOVER—SWEET
The Ackerman Co.
The Barteldes Seed Co.
The Belt Seed Co.
The Bowman Seed Co.
Robt. Buist Co.
C. S. Brent Seed Co.
Capital Fuel, Feed & Seed Co.
Cargill, Inc.
Roscoe J. Carl & Son
Condon Bros., Seedsmen
Corneli Seed Co.
Craver-Dickinson Seed Co.
The Albert Dickinson Co.
J. L. Donley & Bro.
Duryea Seed Co., Inc.
Leslie Edgerton
Ferry-Morse Seed Co.
Funk Bros. Seed Co.

Ging & Company
Goldberg Seed & Feed Co.
Griswold Seed & Nursery Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Henry Hirsch & Sons
Holmes Seed Co.
Hungarian Farmers Co-Op.
Assn.
Edgar F. Hurff Co.
International Seed, Inc.
Interstate Seed & Grain Co.
Jenks-White Seed Co.
Keller Seed Store
Geo. Keller & Sons
Kelly Seed Co.
F. Lagomarsino & Sons
Lakin Seed Co.
Land O'Lakes Creameries,
Inc.
Lowis Seed Co.

Land Charles
Inc.
Lewis Seed Co.
The Chas. H. Lilly Co.
Louisville Seed Co.
Magill & Co.
Ed. F. Mangelsdorf & Bro.,

Louisville Seed Co.
Magill & Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
McCabe Bros. Grain Co., Ltd.
The J. Chas. McCullough
Seed Co.
N. V. H. Mommersteeg's
Zaadteelt en Zaadhandel
Montana Seed Co.
Chas. R. Moore
National Seed Co., Inc.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
Nowday Seeds, Inc.
Northern Field Seed Co.
Northrup, King & Co. (Bomberger Div.)
Northwestern Seed Co.
L. L. Olds Seed Co.
The O & M Seed Co.
Ostberg Seed Co.
Ouren Seed Co.
Ouren Seed Co.
The Philadelphia Seed Co.,
Inc.
Prunty Seed & Grain Co.

Ouren Seed Co.
Peppard Seed Co.
The Philadelphia Seed Co.,
Inc.
Prunty Seed & Grain Co.
Prunty Seed & Grain Co.
Purcell Seed Co.
Ross Seed Co.
Rudy-Patrick Seed Co.
Rudy-Patrick Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
J. M. Schultz Seed Co.
O. M. Scott & Sons Co.
Seaboard Seed Co.
Sedgwick Alfalfa Mills
Geo. P. Sexauer & Son
Shultz Seed Co., Inc.
Sommer Bros. Seed Co.
The Stanford Seed Co.
Steele, Briggs Seed Co.
Steele, Briggs Seed Co.
Ltd.
Stollers Seed House
Transcontinental Seed, Inc.
Twin City Seed Co.
Valker-Christensen Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.

CLOVER— YELLOW SWEET

YELLOW SWEET

Ackerman Co.
Barteldes Seed Co.
Blue Mt. Seed Growers Assn.
Bowman Seed Co.
C. S. Brent Seed Co.
Cargill, Inc.
Roscoe J. Carl & Son
Corneli Seed Co.
Davenport Seed Co.
Duryea Seed Co., Inc.
Leslie Edgerton
Goldberg Seed & Feed Co.
Ging & Company
Gooding Seed Co.
Keller Seed Store
Geo. Keller & Sons
Kelly Seed Co.
H. C. King & Sons
F. Lagomarsino & Sons
R. E. Lambert & Sons
Land O' Lakes Creameries,
Inc.
Chas H. Lilly Co.

Inc.
Chas. H. Lilly Co.
Julius Loewith, Inc.
Magill & Co.
Ed F. Mangelsdorf & Bro., Ed I

McCabe Bros. Grain Co., Ltd. The J. Chas. McCullough Seed

Co.
Michael-Leonard Seed Co.
Chas. R. Moore
Nebraska Seed Co.
Newday Seeds, Inc.
Northrup, King & Co., Mpls.
Northrup, King & Co., Mpls.
Northrup, King & Co., Mpls.
Northwestern Seed Co.
Edgar L. Oakes & Co.
L. L. Olds Seed Co.
Page Seed Co.
Peppard Seed Co.
Philadelphia Seed Co.
Purcell Seed Co.
Ross Seed Co.

Rudy-Patrick Seed Co.
Wm. G. Scarlett & Co.
J. M. Schultz Seed Co.
Seaboard Seed Co.
Geo. P. Sexauer & Son
CLOVER—WHITE
Advance Seed Co.
Agricultural Seed Co.
The Belt Seed Co.
The Belt Seed Co.
The Bowman Seed Co.
C. S. Brent Seed Co.
Robt. Buist Co.
Capital Fuel, Feed & Seed Co.
Cargill, Inc.
Condon Bros., Seedsmen
Corneli Seed Co.
Craver-Dickinson Seed Co.
L. Daehnfeldt, Ltd.
The Albert Dickinson Co.
J. L. Donley & Bro.
Duryea Seed Co., Inc.
Leslie Edgerton
A. Ertag, Inc.
Ferry-Morse Seed Co.
The Gooding Seed Co.
Hamilton Seed & Coal Co.
The Gooding Seed Co.
Hungarian Farmers Co-Op.
Assn.
Edgar F. Hurff Co.
International Seed, Inc.
Jenks-White Seed Co.
Kelly Seed Co.
K. Lagomarsino & Sons
R. E. Lambert & Sons
Land O'Lakes Creameries,
Inc.
Lewis Seed Co.

Land O'Lakes Creameries,
Inc.
Law, Somner Pty., Ltd.
Lewis Seed Co.
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Louisville Seed Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
McCabe Bros. Grain Co., Ltd.
The J. Chas. McCullough
Seed Co.
Mark Means Co.
N. V. H. Mommersteeg's
Zaadteelt en Zaadhandel
Chas. R. Moore
National Seed Co., Inc.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
W. T. Nolin
Northern Field Seed Co.
Northrup, King & Co. (Bomberger Div.)
L. L. Olds Seed Co.
Ostberg Seed Co.
Ouren Seed Co.
Ouren Seed Co.
The Page Seed Co.
Peppard Seed Co.
Linc.
Prunty Seed & Grain Co.
Purcell Seed Co.
Inc.
Ross Seed Co., Inc.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Harold Sadd's Seeds, Ltd.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
J. M. Schultz Seed Co.
Geo. P. Sexauer & Son
Shultz Seed Co.
The Stanford Seed Co.
Stollers Seed House
Transcontinental Seed, Inc.
The Stanford Seed Co.
Stollers Seed House
Transcontinental Seed, Inc.
Twin City Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Wright, Stephenson & Coy,
Ltd.
CLOVER—YELLOW HOP
Albert Dickinson Co.
Duryea Seed Co., Inc.
Speks White Seed Co.
Keller Seed Store
R. E. Lambert & Sons
Chas. H. Lilly Co.
Julius Loewith, Inc.
Robt. Nicholson Seed Co.
W. T. Nolin
CLOVER—WILD WHITE

CLOVER—WILD WHITE
Blue Mountain Seed Growers
Assn.
C. S. Brent Seed Co.
Capital Fuel, Feed & Seed Co.
Corneli Seed Co.
Albert Dickinson Seed Co.
Craver-Dickinson Seed Co.
Duryea Seed Co., Inc.
Ging & Company
Jenks-White Seed Co.
Kelly Seed Co.
R. E. Lambert & Sons
Chas. H. Lilly Co.
Julius Loewith, Inc.
The J. Chas. McCullough Seed
Co.

Chas. R. Moore
Ostberg Seed Co.
Philadelphia Seed Co.
Wm. G. Searlett & Co.
Seaboard Seed Co.
The Stanford Seed Co.
F. H. Woodruff & Sons, Inc.
Wright, Stephenson & Coy,
Ltd.

CORN—FIELD
The Barteldes Seed Co.
The Belt Seed Co.
Benton Mill & Warehouse Co.
N. Bonahoom Seed Co.
The Bowman Seed Co.
The Bowman Seed Co.
C. S. Brent Seed Co.
Robt. Buist Co.
Cargill, Inc.
C. S. Clark & Sons
Arthur R. Cone
Condon Bros. Seedsmen
Corneli Seed Co.
Craver-Dickinson Seed Co.
The Albert Dickinson Co.
J. L. Donley & Bro.
Farmer Seed & Nursery Co.
Farmer Seed & Nursery Co.
Ferry-Morse Seed Co.
Hamilton Seed Co.
Hamilton Seed Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Holmes Seed Co.
Jacques Seed Co.
Jacques Seed Co.
Jacques Seed Co.
Keller Seed Store
Kelly Seed Co.
F. Lagomarsino & Sons
Land O' Lakes Creameries,
Inc.
R. E. Lambert & Sons CORN-FIELD Land O' Lakes Creameries,
Inc.
R. E. Lambert & Sons
Lewis Seed Co.
Louisville Seed Co.
Magill & Co.
Ed F. Mangelsdorf & Bro.,
Inc.
McCabe Bros. Grain Co., Ltd.
The J. Chas. McCullough Seed
Co.

McCabe Bros. Grain Co., Ltd.
The J. Chas. McCullough Seed
Co.
Michael-Leonard Seed Co.
Chas. R. Moore
The Nebraska Seed Co.
Newday Seeds, Inc.
Robt. Nicholoson Seed Co.
W. T. Nolin
Northern Field Seed Co.
L. L. Olds Seed Co.
The O & M Seed Co.
The O & M Seed Co.
The Page Seed Co.
The Page Seed Co.
Peppard Seed Co.
The Philadelphia Seed Co.,
Inc.
Purcell Seed Co.
Riemers' Farms
Ross Seed Co., Inc.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
O. M. Scott & Sons Co.
Sedgwick Alfalfa Mills
George P. Sexauer & Son
Shuler & Smoak
Snelson Seed Co.
The Stanford Seed Co.
Stollers Seed House
Twin City Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
CORN—FLINT
Cargill. Inc.

CORN-FLINT

Cargill, Inc.
C. S. Clark & Sons
Comstock, Ferre & Co.
Jenks-White Seed Co.
H. C. King & Sons
F. Lagomarsino & Sons
R. E. Lambert & Sons
Land O' Lakes Creameries, Land O' Lakes Creameries, Inc.
Inc.
McCabe Bros. Grain Co., Ltd. Chas. R. Moore
Nebraska Seed Co.
Northrup, King & Co., Mpls.
O. & M. Seed Co.
Edgar L. Oakes & Co.
L. L. Olds Seed Co.
Page Seed Co.
Philadelphia Seed Co.
J. C. Robinson Seed Co.
J. C. Robinson Seed Co.
Geo. P. Sexauer & Co.
T. W. Wood & Sons
CORN (Hybrid)

CORN (Hybrid)

CORN (Hybrid)
Barteldes Seed Co.
C. S. Brent Seed Co.
Bowman Seed Co.
Cargill, Inc.
C. S. Clark & Sons
Corneli Seed Co.
Condon Bros. Seedsmen
Davenport Seed Co.
Edward J. Funk & Sons

Funk Bros. Seed Co.
Hamilton Seed & Coal Co.
International Seed, Inc.
Jacques Seed Co.
Jenks-White Seed Co.
Keller Seed Store
Kelly Seed Co.
H. C. King & Sons
F. Lagomarsino & Sons
Land O' Lakes Creameries,
Inc.
R. E. Lambert & Sons
Louisville Seed Co.
Ed F. Mangelsdorf & Bro. Inc.
McCabe Bros. Grain Co., Ltd.
The J. Chas. McCullough Seed
Co.
Michael Lagrand Seed Co.

McCabe Bios. Grain Co., Ita.
The J. Chas. McCullough Seed
Co.
Michael-Leonard Seed Co.
Chas. R. Moore
National Seed Co.
Nebraska Seed Co.
Nebraska Seed Co.
Newday Seeds, Inc.
Northrup, King & Co., Mpls.
Northwestern Seed Co.
O. & M. Seed Co.
Ouren Seed Co.
Edgar L. Oakes & Co.
L. L. Olds Seed Co.
Page Seed Co.
Page Seed Co.
Philadelphia Seed Co.
Pircell Seed Co.
J. C. Robinson Seed Co.
Noss Seed Co.
Wm. G. Scarlett & Co.
O. M. Scott & Sons Co.
Seaboard Seed Co.
Geo. P. Sexauer & Son
Shultz Seed Co., Inc.
Stollers Seed House
Stanford Seed Co.
Owen T. Watts
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
COTTON
Corneli Seed Co.
Keller Seed Store

COTTON

Corneli Seed Co.

Keller Seed Store
R. E. Lambert & Sons
Robt. Nicholson Seed Co.
Russell-Heckle Seed Co.
Shuler & Smoak
Snelson Seed Co.
(Sea Island Long Staple

only)
T. W. Woods & Sons
COWPEAS COWPEAS

Associated Seed Growers, Inc.
The Belt Seed Co.
C. S. Brent Seed Co.
Robert Buist Company
Condon Bros. Seedsmen
Corneli Seed Co.
Ferry-Morse Seed Co.
Ferry-Morse Seed Co.
Ging & Company
The Chas. C. Hart Seed Co.
Edgar F. Hurff Co.
Keller Seed Store
Kelly Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
Lewis Seed Co.
Julius Loewith, Inc.
Louisville Seed Co.
Ed F. Mangelsdorf & Bro.,
Inc.
The I. Chas. McCullough Seed

Inc.
The J. Chas. McCullough Seed Co. Chas. R. Moore National Seed Co., Inc. Robt. Nicholson Seed Co. Peppard Seed Co. The Philadelphia Seed Co.,

Inc.
Prunty Seed & Grain Co.
Prunty Seed & Grain Co.
Russell Seed Co.
Russell-Heckle Seed Co.
Russell-Heckle Seed Co.
J. M. Schultz Seed Co.
Seaboard Seed Co.
Seadwick Alfalfa Mills
Shuler & Smoak
Shultz Seed Co., Inc.
Snelson Seed Co.
Stollers Seed House
T. W. Wood & Sons
F. H. Woodruff & Sons,
CRESTED DOGSTAI

CRESTED DOGSTAIL

CRESTED DOGSTAIL
The Belt Seed Co.
James Coburn & Son
Craver-Dickinson Seed Co.
Duryea Seed Co., Inc.
The Chas. C. Hart Seed Co.
International Seed, Inc.
Jenks-White Seed Co.
F. Lagomarsino & Sons
Julius Loewith, Inc.
The J. Chas. McCullough Seed
Co.
N. V. H. Mommersteeg's Zaadteelt en Zaadhandel
A. S. Paterson & Coy, Ltd.
I. L. Radwaner Seed Co., Inc.
Wm. G. Scarlett & Co.

The Stanford Seed Co. Transcontinental Seed, Inc. F. H. Woodruff & Sons, Inc. Wright, Stephenson & Coy Ltd.

CRESTED WHEAT

CRESTED WHEAT
GRASS

Barteldes Seed Co.
Blue Mt. Seed Growers Assn.
Bowman Seed Co.
Cargill, Inc.
Corneli Seed Co.
The Albert Dickinson Co.
Leslie Edgerton
Gofdberg Seed & Feed Co.
The Gooding Seed Co.
Griswold Seed & Nursery Co.
Jenks-White Seed Co.
H. C. King & Sons
F. Lagomarsino & Sons
Lakin Seed Co.
Land O' Lakes Creameries,
Inc.

Inc.
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Ed F. Mangelsdorf & Bro.,
Inc.

Inc.
Magill & Co.
McCabe Bros. Grain Co., Ltd.
The J. Chas. McCullough Seed
Co.

The J. Chas. McCullough Seed Co.
Montana Seed Co.
Nebraska Seed Co.
Newday Seeds, Inc.
Robt. Nicholson Seed Co.
Northrup, King & Co. (Bomberger Div.)
Northrup, King & Co., Mpls.
Edgar L. Oakes & Co.
L. L. Olds Seed Co.
Ouren Seed Co.
Peppard Seed Co.
Peppard Seed Co.
Rudy-Patrick Seed Co.
Geo. P. Sexauer & Son
Steele, Briggs Seed Co., Ltd.
Valker-Christensen Co.
F. H. Woodruff & Sons, Inc.
CROTALARIA

CROTALARIA

CROTALARIA
The Belt Seed Co.
Corneli Seed Co.
D. H. Gilbert Seed Co., Inc.
Grand Island Nurseries
R. E. Lambert & Sons
Julius Loewith, Inc.
Robt. Nicholson Seed Co.
Riemers' Farms
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Simpson Nursery Co.
Snelson Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
DALLIS GRASS
(Paspalum Dilatatum)
Advance Seed Co.

(Paspalum Dilatatum)
Advance Seed Co.
The Belt Seed Co.
Ferry-Morse Seed Co.
International Seed, Inc.
F. Lagomarsino & Sons
R. E. Lambert & Sons
Law, Sommer Pty., Ltd.
Julius Loewith, Inc.
Chas. R. Moore
Rob. Nicholson Seed Co.
W. T. Nolin
Northrup, King & Co. (Bomberger Div.)
Riemers' Farms
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Snelson Seed Co.
Transcontinental Seed, Inc.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Yuma Co. Farmers Mktg.
Assn.
FSPARSETTE OR

ASSN.
ESPARSETTE OR
SANFOIN
Duryea Seed Co., Inc.
Julius Loewith, Inc.
FESCUES
Agricultural Seed Co., Lt.

Julius Loewith, Inc.
FESCUES
Agricultural Seed Co., Ltd.
Associated Seed Growers, Inc.
The Belt Seed Co.
Blue Mt. Seed Growers Assn.
C. S. Brent Seed Co.
Robt. Buist Co.
Arthur R. Cone
Craver-Dickinson Seed Co.
Corneli Seed Co.
L. Daehnfeldt, Ltd.
The Albert Dickinson Co.
J. L. Donley & Bro.
Duryea Seed Co., Inc.
Engbretson Seed Co.
A. Ertag, Inc.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Hungarian Farmers Coop.
Assn.
International Seed, Inc.

Jenks-White Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
Lewis & Clark Seed Co., Inc.
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Ed. F. Mangeldorf & Bro.,
Inc.

McCabe Bros. Grain Co., Ltd. The J. Chas. McCullough Seed

McCabe Bros. Grain Co., Ltd.
The J. Chas. McCullough Seed
Co.
N. V. H. Mommersteeg's
Zaadteelt en Zaadhandel
Chas. R. Moore
Northrup, King & Co. (Bomberger Div.)
Northrup, King & Co., Mpls.
L. L. Olds Seed Co.
A. S. Paterson & Coy, Ltd.
Peppard Seed Co.
The Philadelphia Seed Co.,
Inc.
Rudy-Patrick Seed Co.
Wm. G. Scarlett & Co.
O. M. Scott & Sons Co.
Seaboard Seed Co.
The Stanford Seed Co.
Stollers Seed House
Transcontinental Seed, Inc.
Twin City Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Wright, Stephenson & Coy,
Ltd.

FETERITA

FETERITA

TELEKTIA

Advance Seed Co.
The Barteldes Seed Co.
N. Bonahoom Seed Co.
The Bowman Seed Co.
Capital Fuel, Feed & Seed Co.
Corneli Seed Co.
Keller Seed Store
Ed. F. Mangelsdorf & Bro.,
Inc.
The J. Chas. McCullough Seed
Co. Robt. Nicholson Seed Co.
L. L. Olds Seed Co.
Peppard Seed Co.
Rudy-Patrick Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Sedgwick Alfalfa Mills
Geo. P. Sexauer & Son
Snelson Seed Co.

FIELD PEAS

Advance Seed Co.
The Belt Seed Co.
C. S. Brent Seed Co.
C. S. Brent Seed Co.
Robt. Buist Co.
Cargill, Inc.
Arthur R. Cone
Condon Bros., Seedsmen
Corneli Seed Co.
Craver-Dickinson Seed Co.
The Albert Dickinson Co.
Duryea Seed Co., Inc.
Leslie Edgerton
A. Ertag, Inc.
Ferry-Morse Seed Co
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Edgar F. Hurff Co.
Hungarian Farmers Coop.
Assn.

Hungarian Farmers.

Assn.
International Seed, Inc.
Interstate Seed & Grain Co.
Jenks-White Seed Co.
Keller Seed Store
F. Lagomarsino & Sons
R. E. Lambert & Sons
Law, Somner Pty., Ltd.
Leckenby Seed Co.
Lewis Seed Co.
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Louisville Seed Co.
Magill & Co.
Da F. Mangelsdorf & Br Magill & Co.
Ed. F. Mangelsdorf & Bro., McCabe Bros. Grain Co., Ltd. The J. Chas. McCullough Seed

McCabe Bros. McCullough Seed
Co.
Mark Means Co.
Montana Seed Co.
Chas. R. Moore
Robt. Nicholson Seed Co.
Northrup, King & Co.
(Bomberger Div.)
L. L. Olds Seed Co.
The Page Seed Co.
Paramount Seed Co.
A. S. Paterson & Coy, Ltd.
The Philadelphia Seed Co.,
Inc.
Prunty Seed & Grain Co.
I. L. Radwaner Seed Co.
Russell-Heckle Seed Co.
Russell-Heckle Seed Co.
Sedgwick Alfalfa Mills
Geo. P. Sexauer & Son
Shultz Seed House
Shuler & Smoak
Snelson Seed Co.

Transcontinental Seed, Inc.
Twin City Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Wright, Stephenson & Coy,
Ltd.

GRASSES-FANCY

GRASSES—FANCY
Advance Seed Co.
Agricultural Seed Co.,Ltd.
The Belt Seed Co.
Blue Mt. Seed Growers Assn.
The Bowman Seed Co.
Condon Bros., Seedsmen
Corneli Seed Co.
Craver-Dickinson Seed Co.
L. Daehnfeldt, Ltd.
The Albert Dickinson Co.
J. L. Donley & Bro.
Duryea Seed Co., Inc.
Engbretson Seed Co.
Ferry-Morse Seed Co.
Hamilton Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Hungarian Farmers Co.-Op.
Assn.
International Seed, Inc.
Jenks-White Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
Lewis Seed Co.
Lewis & Clark Seed Co., Inc.
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Ed. F. Mangelsdorf & Bro.
Inc.
The J. Chas. McCullough Seed

Inc.
The J. Chas. McCullough Seed
Co.

The J. Chas. McCullough Seed Co.
Chas. R. Moore
The Nebraska Seed Co.
Newday Seeds, Inc.
Northrup, King & Co.
(Bomberger Div.)
Northrup, King & Co., Mpls.
L. L. Olds Seed Co.
Ostberg Seed Co.
Ouren Seed Co.
Ouren Seed Co.
The Philadelphia Seed Co.,
Inc.
Prunty Seed & Grain Co.
Purcell Seed Co.
I. L. Radwaner Seed Co., Inc.
Ross Seed Co.
Rudy-Patrick Seed Co.
Rudy-Patrick Seed Co.
Seaboard Seed Co.
Seaboard Seed Co.
Stollers Seed House
Transcontinental Seed, Inc.
Twin City Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Yuma County Farmers Mktg.
Assn.
GROHOMA Assn. GROHOMA

GROHOMA

The Barteldes Seed Co.
N. Boonhoom Seed Co.
The Bowman Seed Co.
Capital Fuel, Feed & Seed Co.
Corneli Seed Co.
Funk Bros. Seed Co.
Griswold Seed & Nursery Co.
Keller Seed Store
Kelly Seed Co.
Ed. F.Mangelsdorf & Bro.,Inc.
The J. Chas. McCullough Seed
Co.
Robt. Nicholson Seed Co.

Co.
Robt. Nicholson Seed Co.
Peppard Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Sedgwick Alfalfa Mills
Geo. P. Sexauer & Son
Shultz Seed Co., Inc.
Snelson Seed Co.
Twin City Seed Co.
HECARI

HEGARI

HEGARI
Advance Seed Co.
The Barteldes Seed Co.
N. Bonahoom Seed Co.
The Bowman Seed Co.
Capital Fuel, Feed & Seed Co.
Corneli Seed Co.
Griswold Seed & Nursery Co.
Hamilton Seed & Coal Co.
Keller Seed Store
R. E. Lambert & Sons
Ed. F. Mangelsdorf & Bro.,
Inc. Ed. F. Mangelsdorf & B. Inc.
The J. Chas. McCullough Seed Co.
Robt. Nicholson Seed Co.
Northwestern Seed Co.
Ouren Seed Co.
Peppard Seed Co.
Rudy-Patrick Seed Co.
Rudy-Patrick Seed Co.
Sedgwick Alfalfa Mills
Geo. P. Sexauer & Son
Snelson Seed Co.
Twin City Seed Co.
T. W. Wood & Sons

Yuma Co. Farmers Mktg.

HEMP

HEMF
Advance Seed Co.
C. S. Brent Seed Co.
Corneli Seed Co.
The Albert Dickinson Seed
Co. Co.
Duryea Seed Co., Inc.
Hamilton Seed & Coal Co.
Ed. Mangelsdorf & Bros., Inc.
The J. Chas. McCullough
Seed Co.
The Philadelphia Seed Co.,

Inc.
Prunty Seed & Grain Co.
Rudy-Patrick Seed Co.
Wm. G. Scarlett & Co.
The Stanford Seed Co.
Twin City Seed Co.
JOHNSON GRASS
Advance Seed Co.
Capital Fuel, Feed & Seed Co.
Corneli Seed Co.
Keller Seed Store
F. Lagomarsino & Sons
R. E. Lambert & Sons
Ed. F. Mangelsdorf & Bro.,
Inc.

R. E. Lambert & Sons
R. E. Lambert & Sons
Ed. F. Mangelsdorf & Bro.,
Inc.
Robt. Nicholson Seed Co.
Snelson Seed Co.

KAFIR CORN
The Barteldes Seed Co.
N. Bonahoom Seed Co.
The Bowman Seed Co.
Corneli Seed Co.
Corneli Seed Co.
Corneli Seed Co.
Curyea Seed Co., Inc.
Griswold Seed & Nursery Co.
Hamilton Seed & Coal Co.
Keller Seed Store
Kelly Seed Co.
Ed F. Mangelsdorf & Bro.,
Inc.

Keller Seed Co.
Kelly Seed Co.
Ed F. Mangelsdorf & Bro.,
Inc.
The J. Chas. McCullough
Seed Co.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
L. L. Olds Seed Co.
Ouren Seed Co.
Peppard Seed Co.
The Philadelphia Seed Co.,
Inc.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Sedgwick Alfalfa Mills
Geo. P. Sexauer & Son
Snelson Seed Co.
Stollers Seed House
T. W. Wood & Sons
KUDZU
C. S. Brent Seed Co.

KUDZU
C. S. Brent Seed Co.
Corneli Seed Co.
Duryea Seed Co., Inc.
R. E. Lambert & Sons
Julius Loewith, Inc.
Peppard Seed Co.
I. L. Radwaner Seed Co., Inc.
Wm. G. Scarlett & Co.
Snelson Seed Co.

Nelson Seed Co.

LAWN MIXTURES
Ackerman Co.
American Bulb Co.
Associated Seed Growers,

American Bulb Co.
Associated Seed Growers,
Inc.
The Barteldes Seed Co.
The Bowman Seed Co.
The Bowman Seed Co.
C. S. Brent Seed Co.
Robert Buist Co.
Cargill, Inc.
Jas. Coburn & Son
Arthur R. Cone
Condon Bros., Seedsmen
Corneli Seed Co.
Craver-Dickinson Seed Co.
The Albert Dickinson Co.
J. L. Donley & Bro.
Duryea Seed Co., Inc.
Ferry-Morse Seed Co.
Hunk Bros. Seed Co.
Hamilton Seed Co.
Hamilton Seed & Coal Co.
Holmes Seed Co.
Holmes Seed Co.
Hungarian Farmers Coop.
Assn.
Kelly Seed Co.
F. Lagomarsino & Sons
Lewis Seed Co.
The Chas. H. Lilly Co.
Louisville Seed Co.
Magill & Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
McCabe Bros. Grain Co., Ltd.

Magill & Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
McCabe Bros. Grain Co., Ltd.
The J. Chas. McCullough
Seed Co.
N. V. H. Mommersteeg's
Zaadteelt en Zaadhandel
Chas. R. Moore
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co.
(Bomberger Div.)
Northrup, King & Co., Mpls.

L. L. Olds Seed Co.
O & M Seed Co.
Oriental Seeds & Plants Co.
Ostberg Seed Co.
Ouren Seed Co.
The Page Seed Co.
Peppard Seed Co.
The Philadelphia Seed Co.,

Ouren Seed Co.
The Page Seed Co.
Peppard Seed Co.
The Philadelphia Seed Co.
Inc.
Prunty Seed & Grain Co.
I. L. Radwaner Seed Co., Inc.
Ross Seed Co.
Rudy-Patrick Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Seaboard Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
O. M. Scott & Sons Co.
Sommer Bros. Seed Co.
Shultz Seed Co., Inc.
Geo. P. Sexauer & Son
The Stanford Seed Co.
Stollers Seed House
Transcontinental Seed, Inc.
Twin City Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
LESPEDEZA
The Barteldes Seed Co.
The Bowman Seed Co.
Craver-Dickson Seed Co.
Craver-Dickson Seed Co.
Hamilton Seed Co.
The Albert Dickinson Co.
Hamilton Seed Co.
International Seed, Inc.
Geo. Keller & Sons
Keller Seed Store
Kelly Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
Lewis Seed Co.
Louisville Seed Co.
Louisville Seed Co.
Louisville Seed Co.
Louisville Seed Co.
Chas. R. Moore
National Seed Co.
Louisville Seed Co.
Chas. R. Moore
National Seed Co.
Chas. R. Moore
National Seed Co.
Louisville Seed Co.
Chas. R. Moore
National Seed Co.
Louisville Seed Co.
Chas. R. Moore
Northwestern Seed Co.
Louis Seed Co.
Chas. R. Moore
Northwestern Seed Co.
Louis Seed Co.
Peppard Seed Co.
The Philadelphia Seed Co.
The Philadelphia Seed Co.
Tinc.
Prunty Seed & Grain Co.
Purcell Seed Co., Inc.
Riemers' Farms

The Philadelphia Seed Co., Inc.
The Philadelphia Seed Co., Inc.
Prunty Seed & Grain Co.
Purcell Seed Co., Inc.
Riemers' Farms
Ross Seed Co.
Rudy-Patrick Seed Co.
Rudy-Patrick Seed Co.
Seaboard Seed Co.
Wm. G. Scarlett & Co.
J. M. Schultz Seed Co.
Shultz Seed Co., Inc.
Sedgwick Alfalfa Mills
Geo. P. Sexauer & Son
J. P. Snapp & Son
Snelson Seed Co.
Stollers Seed House
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
LUPINES
Agricultural Seed Co., Ltd.
Corneli Seed Co.
Duryea Seed Co., Inc.
R. E. Lambert & Son
Julius Loewith, Inc.
N. V. H. Mommersteeg's
Zaadteelt en Zaadhandel
I. L. Radwaner Seed Co., Inc.
Snelson Seed Co.
F. H. Woodruff & Sons, Inc.
MAPLE PEAS
Blue Mountain Seed Growers
Assn.
Duryea Seed Co., Inc.

Blue Mountain Seed Grower
Assn.
Duryea Seed Co., Inc.
Julius Loewith, Inc.
F. Lagomarsino & Sons
Law, Somner Pty., Ltd.
The J. Chas. McCullough
Seed Co.
Philadelphia Seed Co.
Wm. G. Scarlett & Co.
Wright, Stephenson & Coy,
Ltd.

MELILOTUS INDICA C. S. Brent Seed Co. Capital Fuel, Feed & Seed

Capital Fuel, Feed & Seed Co.
Cargill, Inc.
Corneli Seed Co.
Cuff-Archias Seed Co.
Albert Dickinson Co.
Duryea Seed Co., Inc.
Kelly Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
Chas R. Moore
Nebraska Seed Co.
Robt. Nicholson Seed Co.

Northrup, King & Co. (Bomberger Div.) Paramount Seed Co. Yuma Co. Farmers Mktg. Assn.

MICHELS

MICHELS
Blue Mt. Seed Growers Assn.
Corneli Seed Co.
Duryea Seed Co., Inc.
The Gooding Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
Leckenby Seed Co.
The J. Chas. McCullough
Seed Co.
Chas R. Moore
Robt. Nicholson Seed Co.
Rudy-Patrick Seed Co.
Stollers Seed House
F. H. Woodruff & Sons, Inc.

MILLETS

MILLETS

Agricultural Seed Co., Inc.
The Barteldes Seed Co.
The Belt Seed Co.
N. Bonahoom Seed Co.
The Bowman Seed Co.
Robert Buist Co.
C. S. Brent Seed Co.
Cargill, Inc.
Arthur R. Cone
Corneli Seed Co.
The Albert Dickinson Co.
Duryea Seed Co., Inc.
Leslie Edgerton
Ferry-Morse Seed Co.
Funk Bros. Seed Co.
Hamilton Seed Co.
Hamilton Seed Co.
Holmes Seed Co.
Holmes Seed Co.
Holmes Seed Co.
Kelly Seed Co.

Louisville Seed Co.
Magill & Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
McCabe Bros. Grain Co., Ltd.
The J. Chas. McCullough
Seed Co.
Chas. R. Moore
The Nebraska Seed Co.
Newday Seeds, Inc.
Robt. Nicholson Seed Co.
L. L. Olds Seed Co.
Ouren Seed Co.
The Page Seed Co.
Peppard Seed Co.
The Philadelphia Seed Co.,
Inc.
Prunty Seed & Grain Co.
Purcell Seed Co.
Riemers' Farms
Ross Seed Co.
Rudy-Patrick Seed Co.
Rudy-Patrick Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
J. M. Schultz Seed Co.
Seedgwick Alfalfa Mills
Geo. P. Sexauer & Son
Shultz Seed Co.
(Cattail and Brown Top)
The Stanford Seed Co.
Transcontinental Seed, Inc.
Twin City Seed Co.
Valker-Christensen Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
MILO MAIZE
Advance Seed Co.

F. H. Woodruff & Sons, Inc.

MILO MAIZE

Advance Seed Co.
The Barteldes Seed Co.
N. Bonahoom Seed Co.
The Bowman Seed Co.
Capital Fuel, Feed & Seed Co.
Corneli Seed Co.
Duryea Seed Co., Inc.
Ferry-Morse Seed Co.
Keller Seed Store
Kelly Seed Co.
F. Lagomarsino & Sons
Ed. F. Mangeldorf & Bro.,
Inc.

Kelly Seed Co.
F. Lagomarsino & Sons
Ed. F. Mangeldorf & Bro.,
Inc.
The J. Chas. McCullough
Seed Co.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co.
(Bomberger Div.)
L. L. Olds Seed Co.
Paramount Seed Co.
Paramount Seed Co.
The Philadelphia Seed Co.
Inc.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Sedgwick Alfalfa Mills
Geo. P. Sexauer & Son
Snelson Seed Co.

Stollers Seed House
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.

MUNG BEANS

Corneli Seed Co.
Keller Seed Store
R. E. Lambert & Sons
Julius Loewith, Inc.
The J. Chas. McCullough
Seed Co.
Robt. Nicholson Seed Co.
J. M. Schultz Seed Co.
Snelson Seed Co.
OAT GRASS
The Belt Seed Co.
Corneli Seed Co.
Corneli Seed Co.
Corneli Seed Co.
Duryea Seed Co.
Jenks-White Seed Co.
F. Lagomarsino & Sons
The Chas. H. Lilly Co.
Julius Loewith, Inc.
The J. Chas. McCullough
Seed Co.
N. V. H. Mommersteeg's
Zaadteelt en Zaadhandel
Chas. R. Moore
National Seed Co.
Peppard Seed Co.
The Philadelphia Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Stollers Seed House
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
OIL SEEDS
Chas. H. Lilly Co.
McCabe Bros. Grain Co.. Ltd.
The J. Chas. McCullough
Seed Co.
Wm. G. Scarlett & Co.
Stollers Seed Co.
Consell Seed Co.
Concli Seed Co.
Corneli Seed Co.
Corneli Seed Co.
Corneli Seed Co.
Corneli Seed Co.
L. Daehnfeldt, Ltd.
The Albert Dickinson Seed Co.
L. Daehnfeldt, Ltd.
The Albert Dickinson Co.
Duryea Seed Co.
Tunk Bros. Seed Co.
Tunk Bros. Seed Co.
Hungarian Farmers Coop.
Assn.
Jenks-White Seed Co.
Kelly Seed Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Louisville Seed Co.
Ed. F. Mangelsdorf & Bro.,
Junks Seed Co.
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Louisville Seed Co.
Ed. F. Mangelsdorf & Bro.,
Junks Seed Co.
Ed. F. Mangelsdorf & Bro.,

Inc

Inc.
The J. Chas. McCullough
Seed Co.
N. V. H. Mommersteeg's
Zaadteelt en Zaadhandel
Chas. R. Moore
National Seed Co.
Northrup, King & Co.
(Bomberger Div.)
L. L. Olds Seed Co.
Ouren Seed Co.
Peppard Seed Co.
The Philadelphia Seed Co.,
Inc.

The Inc

The Philadeiphia Seed Co., Inc.
Inc.
Purcell Seed Co.
I. L. Radwaner Seed Co., Inc.
Ross Seed Co.
Rudy-Patrick Seed Co.
Rudy-Patrick Seed Co.
Walter S. Schell, Inc.
Seaboard Seed Co.
Skultz Seed Co., Inc.
The Stanford Seed Co.
Stollers Seed House
Transcontinental Seed, Inc.
Twin City Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Wright, Stephenson & Coy,
Ltd.
DACTURE MYTUPES

Ltd.

PASTURE MIXTURES

The Belt Seed Co.
C. S. Brent Seed Co.
The Bowman Seed Co.
Robert Buist Co.
Cargill, Inc.
Condon Bros., Seedsmen
Arthur R. Cone
Cornell Seed Co.
Craver-Dickinson Seed Co.
The Albert Dickinson Seed
Co.
J. L. Donley & Bro. J. L. Donley & Bro. Duryea Seed Co., Inc. Ferry-Morse Seed Co. Funk Bros. Seed Co.

Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Jenks-White Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
Lewis Seed Co.
The Chas. H. Lilly Co.
Louisville Seed Co.
McCabe Bros. Grain Co., Ltd.
Magill & Co.
Ed. F. Mangelsdorf & Bro.,
Inc.

Magill & Co.

Ed. F. Mangelsdorf & Bro.,
Inc.
The J. Chas. McCullough
Seed Co.
Michael-Leonard Seed Co.
N. V. H. Mommersteeg's
Zaadteelt en Zaadhandel
Chas. R. Moore
National Seed Co., Inc.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
W. T. Nolin
Northrup, King & Co.
(Bomberger Div.)
Northwestern Seed Co.
U. L. Olds Seed Co.
Ouren Seed Co.
Peppard Seed Co.
Prunty Seed & Grain Co.
Prunty Seed & Grain Co.
Prunty Seed & Grain Co.
Purcell Seed Co.
I. L. Radwaner Seed Co.
Rudy-Patrick Seed Co.
Rudy-Patrick Seed Co.
William G. Scarlett & Co.
William G. Scarlett & Co.
William G. Scarlett & Co.
Seaboard Seed Co.
Geo. P. Sexauer & Son
The Stanford Seed Co.
Stollers Seed House
Transcontinental Seeds, Inc.
Twin City Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
PHALARIS TUBEROSE
Law, Somner Pty. Ltd.

PHALARIS TUBEROSE aw, Somner Pty., Ltd.

POA TRIVIALIS
Ackerman Co.
Associated Seed Growers, POA TRIVIALIS

Ackerman Co.

Associated Seed Growers,
Inc.

Barteldes Seed Co.

C. S. Brent Seed Co.

Robert Buist Co.

Cargill, Inc.

Corneli Seed Co.

Albert Dickinson Co.

Craver-Dickinson Seed Co.

Duryea Seed Co., Inc.

Funk Bros. Seed Co.

Hamilton Seed & Coal Co.

International Seed, Inc.

Jenks-White Seed Co.

Kelly Seed Co.

H. C. King & Sons

F. Lagomarsino & Sons

Chas. H. Lilly Co.

Julius Loewith, Inc.

Louisville Seed Co.

Ed. F. Mangelsdorf & Bro.,
Inc.

The J. Chas. McCullough
Seed Co.

N. V. H. Mommersteeg's

Zaadteelt en Zaadhandel

Chas. R. Moore

John Mosbell Co.

Nebraska Seed Co.

Robt. Nicholson Seed Co.

Northrup, King & Co.

(Bomberger Div.)

L. L. Olds Seed Co.

Ouren Seed Co.

Peppard Seed Co.

Philadelphia Seed Co.

Philadelphia Seed Co.

J. M. Schultz Seed Co.

J. M. Schultz Seed Co.

O. M. Scott & Sons Co.

Geo. P. Sexauer & Son
The Stanford Seed Co.

Steele, Briggs Seed Co.

Steele, Briggs Seed Co.

KAPE

Advance Seed Co.

Agricultural Seed Co.

Ltd.

RAPE

RAPE
Advance Seed Co.
Agricultural Seed Co., Ltd.
The Belt Seed Co.
Benton Mill & Whse. Co.
Bowman Seed Co.
C. S. Brent Seed Co.
Robert Buist Company
Cargill, Inc.
Corneli Seed Co.
Craver-Dickinson Seed Co.
The Albert Dickinson Co.
J. L. Donley & Bro.
Duryea Seed Co., Inc.
A. Ertag, Inc.
Ferry-Morse Seed Co.
Funk Bros. Seed Co.
Hamilton Seed & Coal Co.

The Chas. C. Hart Seed Co. Holmes Seed Co. Hungarian Farmers Coop.

Holmes Seed Co.
Hungarian Farmers Coop.
Assn.
International Seed, Inc.
Jenks-White Seed Co.
Keller Seed Store
Kelly Seed Co.
F. Lagomarsino & Sons
R. F. Lambert & Sons
Leckenby Seed Co.
Lewis Seed Co.
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Louisville Seed Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
The J. Chas. McCullough
Seed Co.
Mark Means Co.
Michael-Leonard Seed Co.
N. V. H. Mommersteeg's
Zaadteelt en Zaadhandel
Chas. R. Moore
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co., Mpls.
Northwestern Seed Co.
L. L. Olds Seed Co.
Peppard Seed Co.
The Philadelphia Seed Co.,
Inc.
Prunty Seed & Grain Co.
Purcell Seed Co.

The Philadelphia Seed Co., Inc.
Prunty Seed & Grain Co.
Prunty Seed Co.
I. L. Radwaner Seed Co., Inc.
Ross Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
J. M. Schultz Seed Co.
Shultz Seed Co., Inc.
Seaboard Seed Co.
Geo. P. Sexauer & Son.
Snelson Seed Co.
The Stanford Seed Co.
Stollers Seed House
Transcontinental Seed, Inc.
Twin City Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Wright, Stephenson & Coy,
Ltd.

REDTOP

REDTOP

REDTOP

The Ackerman Co.
Associated Seed Growers, Inc.
The Belt Seed Co.
The Bowman Seed Co.
C. S. Brent Seed Co.
Robert Buist Company
Cargill, Inc.
Condon Bros., Seedsmen
Arthur R. Cone
Corneli Seed Co.
Craver-Dickinson Seed Co.
The Albert Dickinson Co.
J. L. Donley & Bro.
Duryea Seed Co., Inc.
A. Ertag, Inc.
Ferry-Morse Seed Co.
Funk Bros. Seed Co.
Ging & Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Holmes Seed Co.
Holmes Seed Co.
Holmes Seed Co.
Kelly Seed Co.
Kelly Seed Co.
Geo. Keller & Sons
F. Lagomarsino & Sons
R. E. Lambert & Sons
Lewis Seed Co.
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Louisville Seed Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
The J. Chas. McCullough

Louisville Seed Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
The J. Chas. McCullough
Seed Co.
Michael-Leonard Seed Co.
Chas. R. Moore
National Seed Co., Inc.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
Northern Field Seed Co.
Northrup, King & Co.
(Bomberger Div.)
Northrup, King & Co., Mpls.
Northwestern Seed Co.
L. L. Olds Seed Co.
Ostberg Seed Co.
Ouren Seed Co.
The Page Seed Co.
Peppard Seed Co.
Prunty Seed & Grain Co.
Prunty Seed & Grain Co.

Inc.
Prunty Seed & Grain Co.
Purcell Seed Co.
I. L. Radwaner Seed Co., Inc.
Ross Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
J. M. Schultz Seed Co.

Walter S. Schell, Inc.
O. M. Scott & Sons Co.
Shultz Seed Co., Inc.
Seabord Seed Co.
Geo. P. Sexauer & Son
Snelson Seed Co.
The Stanford Seed Co.
Stollers Seed House
Transcontinental Seed, Inc.
Twin City Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
REED CANARY GRASS
The Belt Seed Co.
Cargill, Inc.
Corneli Seed Co.
Craver-Dickinson Seed Co.
The Albert Dickinson Co.
Duryea Seed Co., Inc.
Leslie Edgerton
Farmer Seed & Nursery Co.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
Hamilton Seed & Coal Co.
Holmes Seed Co.
Holmes Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Magill & Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
McCabe Bros. Grain Co., Ltd.
The J. Chas. McCullough
Seed Co.
Michael-Leonard Seed Co.
Chas. R. Moore
The Nebraska Seed Co.
Northrup, King & Co.
(Bomberger Div.)
Northrup, King & Co.
(Bomberger Div.)
Northwestern Seed Co.
L. L. Olds Seed Co.
Northwestern Seed Co.
L. L. Olds Seed Co.
The Philadelphia Seed Co.
L. L. Olds Seed Co.
The Philadelphia Seed Co.
The Scarlett & Co.
Walter S. Schell, Inc.
Geo. P. Sexauer & Son
Snelson Seed Co.
The Stanford Seed Co.
The Chasc

RESCUE GRASS RESCUE GRASS
The Belt Seed Co.
Duryea Seed Co., Inc.
F. Lagomarsino & Sons
R. E. Lambert & Sons
Law, Somner Pty., Ltd.
Julius Loewith, Inc.
Chas. R. Moore
Robt. Nicholson Seed Co.
A. S. Paterson & Coy, Ltd.
L. L. Radwaner Seed Co., Inc.
Snelson Seed Co.
Stollers Seed House
RHODES CRASS

Snelson Seed Co.
Stollers Seed House
RHODES GRASS
The Belt Seed Co.
Duryea Seed Co., Inc.
Ferry-Morse Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
Law, Somner Pty., Ltd.
Julius Loewith, Inc.
Chas. R. Moore
Robt. Nicholson Seed Co.
Northrup, King & Co.
(Bomberger Div.)
I. L. Radwaner Seed Co.
Northrup, King & Co.
(Bomberger Div.)
Stollers Seed House
RYE GRASS—DOMESTIC
Advance Seed Co.
Stollers Seed Growers, Inc.
The Belt Seed Co.
Benton Mill & Whse. Co.
The Bowman Seed Co.
C. S. Brent Seed Co.
Robert Buist Company
Capital Fuel, Feed & Seed
Co.
Cargill, Inc.

Capital Fuel, Feed & See Co.
Co.
Cargill, Inc.
Arthur R. Cone
Corneli Seed Co.
Craver-Dickinson Seed Co.
The Albert Dickinson Co.
J. L. Donley & Bro.
Duryea Seed Co., Inc.
A. Ertag, Inc.
Ferry-Morse Seed Co.
Funk Bros. Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
International Seed. Inc.
Jenks-White Seed Co.
Keller Seed Store
Kelly Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons

Lewis Seed Co.
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Louisville Seed Co.
Ed. F. Mangelsdorf & Bro.,

Louisville Seed Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
The J. Chas. McCullough
Seed Co.
Chas. R. Moore
National Seed Co., Inc.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co., Mpl
Northrup, King & Co., Mpl
Northrup, King & Co.
Bomberger Div.)
L. L. Olds Seed Co.
Ostberg Seed Co.
Ouren Seed Co.
Paramount Seed Co.
Paramount Seed Co.
The Philadelphia Seed Co.,
Inc.
Prunty Seed & Grain Co. Mpls.

The Philadelphia Seed Co., Inc.
Inc.
Prunty Seed & Grain Co.
Purcell Seed Co.
I. L. Radwaner Seed Co., Inc.
Ross Seed Co., Inc.
Ross Seed Co., Inc.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
O. M. Scott & Sons Co.
Seaboard Seed Co.
Geo. P. Sexauer & Son
Shultz Seed Co., Inc.
Snelson Seed Co.
The Stanford Seed Co.
Stollers Seed, House
Transcontinental Seed, Inc.
Twin City Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
RYE GRASS—ENGLISH

RYE GRASS—ENGLISH
Benton Mill & Whse. Co.
C. S. Brent Seed Co.
Jas. Coburn & Son
Cornell Seed Co.
Craver-Dickson Seed Co.
Duryea Seed Co., Inc.
International Seed, Inc.
Jenks-White Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
Chas. H. Lilly Co.
Julius Loewith, Inc.
Ed. F. Mangelsdorf & Bro.,
Inc.
J. Chas. McCullough Sonia RYE GRASS—ENGLISH

Ed. F. Mangelsdorf & Bro.,
Inc.
J. Chas. McCullough Seed Co.
Michael-Leonard Seed Co.
N. V. H. Mommersteeg's
Zaadteelt en Zaadhandel
John Mosbell Co.
Northrup, King & Co.
((Bomberger Div.)
Philadelphia Seed Co., Inc.
O. M. Scott & Sons Co.
The Stanford Seed Co., Ltd.
Geo. P. Sexauer & Son
Stollers Seed House
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
RYE GRASS—ITALIAN
Benton Mill & Whse. Co.
C. S. Brent Seed Co.
Robert Buist Company
James Coburn & Son
L. Daehnfeldt, Ltd.
Hungarian Farmers Co-op.
Assn.
International Seed, Inc.

Hungarian Farmers Co-og Assn. International Seed, Inc. Jenks-White Seed Co. Kelly Seed Co. F. Lagomarsino & Sons R. E. Lambert & Sons Chas. H. Lilly Co. Julius Loewith, Inc. Ed. F. Mangelsdorf & Bro., Inc.

Julius Loewith, Inc.
Ed. F. Mangelsdorf & Bro.,
Inc.
The J. Chas. McCullough
Seed Co.
Michael-Leonard Seed Co.
N. V. H. Mommersteeg's
Zaadteelt en Zaadhandel
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Twin City Seed Co.
The Stanford Seed Co.
Stollers Seed House
Transcontinental Seed, Inc.
Twin City Seed Co.
The Stanford Seed Co.
Stollers Seed House
Transcontinental Seed, Inc.
Twin City Seed Co.
The Stanford Seed Co.
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Transcontinental Seed, Inc.
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Newday Seeds, Inc.
Ourren Seed Co.
The Nebraska Seed Co.
Newday Seeds, Inc.
Ourren Seed Co.
The Nagomarian & Seed Co.
The Holas. McCullough
Seed

INDEX TO ADVERTISERS

See Pa	age	See	Page
	41	Douglas Chemical & Supply Co., 829 Southwest Blvd., Kansas City	,
Advance Seed Co., 7th & Berry Sts., San Francisco, Calif	73 43 35 85	Mo. Douglas-Guardian Warehouse Corp., 100 W. Monroe St., Chicago, Ill Dow Chemical Co., Midland, Mich. DuBois Press, The, Box 70, Rochester, N. Y. Duryea Seed Co., Inc., 18 Desbrosses St., New York, N. Y.	202 11 37
	43 90	The state of the s	102
American Duib Co., 1333 W. Kandolph St., Chicago, 2	18	Earp-Thomas Laboratories, Inc., 77 Washington St., Bloomfield, N. J. Easyfold Manufacturer, Faribault, Minn	159
American Chemical Lamit Co., Ambier, La		Edgerton, Leslie, 334 First St., N., Minneapolis, Minn.	35
American Grain Separator Co., Minneapolis, Minn	201	Enghretson Seed Co., Astoria, Ore	133
American Paper Goods Co., The, 1327 Washington Blvd., Chicago,	172	Ertag Inc A 730 Fifth Ave., New York, N. Y	35
III		Exact Weight Scale Co., The, Columbus, Ohio	199
Ames Bag Machine Co., 1991 E. 66th St., Cleveland, Ohio		Farmer Seed & Nursery Co., Faribault, Minn	96
Ariens Co., Brillion, Wis	31	Fenchurch Export Corp., 1 Broadway, New York, N. Y	83
Associated Seed Growers, Inc., 205 Church St., New Haven, Conn.		Ferry-Morse Seed Co., Detroit, Mich., San Francisco, Calif	7
Atkins & Durbrow, Inc., 165 John St., New York, N. Y		Fulton Bag & Cotton Mills, Atlanta, Ga	80
artains & Buildow, Inc., 105 John St., New Tork, N. 17		Funk Bros. Seed Co., Bloomington, Ill	97
		Funk & Sons, Edward J., Kentland, Ind	74
Ball-Biddle Co., Riverton, N. J			
Barteldes Seed Co., The, Lawrence, KanBartlett Mfg. Co., 3003 E. Grand Blvd., Detroit, Mich		Garden Products Co., 617 N. Broadway, St. Louis, Mo	168
Battle Creek Dog Food Co., Battle Creek, Mich		Gardex, Inc., Michigan City, Ind	156
Bayer-Semesan Co. (Inc.), DuPont Bldg., Wilmington, Del		Garwood Seed Co., H. D., Rocky Ford, Colo	103
Belt Seed Co., Inc., The, Calvert & Pratt Sts., Baltimore, Md	41	Gilbert Seed Co., Inc., D. H., Monticello, Fla	113
Bemis Bro. Bag Co., St. Louis, Mo		Ging & Co., Farina, Ill	119
Benton Mill & Warehouse Co., Çorvallis, Ore		Goldberg Seed & Feed Co., Fargo, N. D	37
Blue Mountain Seed Growers Assn., LaGrande, Ore		Gooding Seed Co., The, Gooding, Idaho	104
Bodger Seeds, Ltd., El Monte, Calif	23	Goulard & Olena, Inc., 140 Liberty St., New York, N. Y	74
Bohlender Plant Chemicals, Inc., Tipp City, Ohio 1	189	Griswold Seed & Nursery Co., Lincoln, Neb.	37
Bonahoom Seed Co., N. Hastings, Neb	204	Gustafson Seed Grain Machinery Co., Ben, Fargo, N. D	201
Bowman Seed Co., The, Concordia, Kan	76		
Boyle Co., A. S., 257 Cornelison Ave., Jersey City, N. J	174	Hall Printing Co., W. F., 4600 Diversey Ave., Chicago, Ill136,	137
Braslan Seed Growers Co., Inc., San Jose, Calif 1	110	Hamilton Seed & Coal Co., Inc., 600 Oakland Ave., Cedar Rapids,	
Brent Seed Co., The C. S., 128 S. Broadway, Lexington, Ky	27	Iowa	31
Brown Box Filling Machine Co. The Firetham W.	45	Hammond Paint & Chemical Co., 100 Ferry St., Beacon, N. Y	180
Brown Bag Filling Machine Co., The, Fitchburg, Mass	8	Hance Mfg. Co., J. W., Westerville, Ohio	157
Buckman, Denholm & Holden Seed Co., Lompoc, Calif	95	Hart-Carter Co., 655 19th Ave., N. E., Minneapolis, Minn	129
Buist Co., Robert, 4 S. Front St., Philadelphia, Pa 1	03	Haubensak Sons, F., Box 105, St. Louis, Mo	94
Burgess Seed & Plant Co., Galesburg, Mich	193	Heinrich Envelope Co., 108 N. Washington St., Minneapolis, Minn.	196
Burpee Co., W. Atlee, Burpee Bldgs., Philadelphia, Pa		Heller & Co., 97 Wabash Ave., Montpelier, Ohio	218
2 ora, colon,	30	Herbst Brothers, 92 Warren St., New York, N. Y	
		Hirsch & Sons, Inc., Henry, Toledo, Ohio	
California Spray-Chemical Corp., Elizabeth, N. J., Richmond, Calif. 1	.63	Hollenbach's Seed Store, 808 W. Lake St., Chicago, Ill	
Capital Fuel, Feed & Seed Co., Box 1710, Phoenix, Ariz	27	Holmes Seed Co., The, 224 Cleveland Ave., N. W., Canton, Ohio	
Cargill, Inc., Seed Division, Box 64, Minneapolis, Minn	77	Howes Co., Inc., S., Silver Creek, N. Y	
C-A-Wood Preserver Co., 6625 Delmar Blvd., St. Louis, Mo	39 74	apest, Hungary	
Cedar Hill Formulae Co., The, New Britain, ConnThird Cov	ver .	Hurff Co., Edgar F., Swedesboro, N. J	
Chappel Brothers, Inc., Rockford, Ill 1	31	Hydroponic Chemical Co., Inc., 315 W. 39th St., New York, N. Y.	176
Chester County Mushroom Laboratories, West Chester, Pa 1	84		
Christianson, Alf, Mt. Vernon, Wash	45	Idaho Grimm Alfalfa Seed Growers Assn., Blackfoot, Idaho	118
Cleland Mig. Co., 2900 Washington Ave., N., Minneapolis, Minn. 1	97	Innis, Speiden & Co., 117 Liberty St., New York, N. Y	
Coburn & Son, James, Banbridge, Northern Ireland	82	International Seed, Inc., 11 Park Place, New York, N. Y	
Comstock, Ferre & Co., Wethersfield, Conn	12	Interstate Seed & Grain Co., Fargo, N. D	43
Condon Bros., Seedsmen, Rockford, Ill	57	V	4.50
Corneli Seed Co., 101 Chouteau St., St. Louis, Mo		Jacques Seed Co., Prescott, Wis	
Craver-Dickinson Seed Co., 567 Exchange St., Buffalo, N. Y	39	Josephine Growers' Cooperative Assn., Grants Pass, Ore	
Crosman Seed Co., Inc., East Rochester, N. Y	89		
Cuff-Archias Seed Co., 526 Main St., Brawley, Calif	45	Kay Fries Chemicals, Inc., 180 Madison Ave., New York, N. Y	180
Cyclone Mfg. Co., The, Urbana, Ind	95	Keller Seed Store, Shawnee, Okla	144
, , , , , , , , , , , , , , , , , , ,		Keller & Sons, Geo., 907 Maine St., Quincy, Ill	120
		Kelly Seed Co., San Jose, Ill.	119
Daehnfeldt, Ltd., L., Odense, Denmark		Kimberlin Seed Co., 241 S. 14th St., San Jose, Calif	157
Davenport Seed Co., Inc., Davenport, Iowa		Kirby, Norval E., 20th & Walnut Sts., Philadelphia, Pa	85
Detco Mfg. Co., Oaks, Pa		, a madeiphia, i a	-
Dickinson Co., The Albert, 2750 W. 35th St., Chicago, Ill		Lagomarsino & Sons E Sacramento Colif	50
Disbrow Mfg. Co., The, 16-34 Nesbitt St., Newark, N. J	3	Lagomarsino & Sons, F., Sacramento, Calif	130
Dobbins Mfg. Co., Elkhart, Ind	63	Lambert, L. F., Coatesville, Pa	160
Donley & Bro., J. L., Ashland, Ohio	42	Lambert & Sons, R. E., Darlington, Ala	143
Doubleday, Doran & Co., Inc., 14 W. 49th St., New York, N. Y	93	Land O'Lakes Creameries, Inc., Seed Div., Minneapolis, Minn.	129

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Lewis & Clark Seed Co., Inc., Astoria, Ore	Root Co., The A. I., Medina, Ohio
Lilly Co., The Chas. H., Seattle, Wash	Rorer, Inc., William H., 254 S. 4th St., Philadelphia, Pa 177
Louisville Seed Co., Inc., Louisville, Ky	Ross Seed Co., Inc., Louisville, Ky
Louisvine Seed Co., Inc., Louisvine, My	Royal River Mills, Inc., 33 S. Charles St., Baltimore, Md 150
	Rudy-Patrick Seed Co., Station A., Kansas City, Mo
McCabe Bros. Grain Co., Ltd., 980 Grain Exchange, Winnipeg, Man.,	Russell-Heckle Seed Co., 16 S. Front St., Memphis, Tenn 149
Canada	
McCormick Sales Co., The, Baltimore, Md	Sadd's Seeds, Ltd., Harold, Ipswich, England 82
McCullough Seed Co., The J. Chas., 3rd & Eggleston Aves., Cin-	Salta Corp., Virginia Rubatex Div., 1 Exchange Pl., Jersey City,
cinnati, Ohio	N. J
McHutchison & Co., 95 Chambers St., New York, N. Y 202	Sanguinetti, E. F., Yuma, Ariz
Macdonald Seed Co., The Wm., Santa Maria, Calif 1	Scarlett & Co., Wm. G., 729 E. Pratt St, Baltimore, Md
Macmillan Co., The, 60 Fifth Ave., New York, N. Y	Schmidt Lithograph Co., 461 Second St., San Francisco, Calif 33
Magill & Co., Fargo, N. D	Schoemann & Mayer, Inc., 33 Union Sq., New York, N. Y 167
Mangelsdorf & Bro., Inc., Ed. F., 1020 S. 4th St., St. Louis, Mo. 69 Masters Planter Co., Benton Harbor, Mich	Schultz Seed Co., J. M., Dieterich, Ill
Means Co., Mark, Lewiston, Idaho	Scott & Sons Co., O. M., Marysville, Ohio
Mechling Bros. Chemicals, 12 S. 12th St., Philadelphia, Pa 211	Seaboard Seed Co., 701 S. Front St., Philadelphia, Pa
Merck & Co., Inc., Rahway, N. J 98	Sedberry, Inc., J. B., Franklin, Tenn
Michael-Leonard Seed Co., Sioux City, Iowa; Chicago, Ill 125	Sedgwick Alfalfa Mills, Sedgwick, Kan
Mommersteeg's Zaadteelt en Zaadhandel, N. V. H., Vlijmen, Holland 84	Sexauer & Son, Geo. P., Brookings, S. D
Montana Seed Co., Box 429, Bozeman, Mont	Sherwood Seed Co., 108 Davis St., San Francisco, Calif 101
Moore, Charles R., Chamber of Commerce Bldg., Cincinnati, Ohio. 140	Shuler & Smoak, Orangeburg, S. C
Morse Co., A. B., St. Joseph, Mich	Shultz Seed Co., Inc., Olney, Ill
Myers & Bro. Co., The F. E., 1423 Orange St., Ashland, Ohio 179	Simpson Nursery Co., Monticello, Fla
	Sluis, Peter, Mt. Vernon, Wash
	Smith Agricultural Chemical Co., Columbus, Ohio
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York, N. Y 184	Spratt's Patent, Ltd., 12 Congress St., Newark, N. J
Newday Seeds, Inc., Fargo, N. D	Standard Seed Farms Co., Stockton, Calif
Nicholson Seed Co., Robert, Dallas, Texas	Stanford Seed Co., The, Buffalo, N. Y
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Northrup, King & Co., Minneapolis, Minn	Stokes Co., Francis C., Vincentown, N. J
Northrup, King & Co., Bomberger Div., Berkeley, Calif 72	Stoffel Seals Co., 201 N. Wells St., Chicago, Ill 96
Northwestern Seed Co., Inc., Keokuk, Iowa	Stollers Seed House, 211 W. Perry St., Paulding, Ohio 47
Nott Mfg. Co., 87 Frankfort St., New York, N. Y	Summers Fertilizer Co., Inc., Stock Exchange Bldg., Baltimore, Md. 183
	Superior Separator Co., 1179 15th Ave., S. E., Minneapolis, Minn 83 Swift & Co., Vigoro Dept., Union Stock Yards, Chicago, Ill
Oakes & Co., Edgar L., Caldwell, Idaho	bant a co., vigoro bepti, omon giock Taras, omeago, im
Oldmill Paper Products Corp., Skillman Ave. at 33rd St., Long	
Island City, N. Y.; San Francisco, Calif	Tennessee Corp., Loma Div., 61 Broadway, New York, N. Y 105
Oliver Mfg. Co., 1409 S. 8th St., St. Louis, Mo	Thomas Truck & Caster Co., 4206 Mississippi River, Keokuk, Iowa 201
O & M Seed Co., The, Green Springs, Ohio	Thompson Co., Wm. T., 2727 Hyperion Ave., Los Angeles, Calif 141
One-Spot Co., Elkridge, Md	Tobacco By-Products & Chemical Corp., Inc., Louisville, Ky 235 Transcontinental Seed, Inc., 20 Vesey St., New York, N. Y
Oregon Bulb Farms, Sandy, Ore	Troemner, Henry, 911 Arch St., Philadelphia, Pa
Oriental Seeds & Plants Co., 1707 Geary St., San Francisco, Calif 84	Twin City Seed Co., 130 2nd St., N. E., Minneapolis, Minn 126
Ostberg Seed Co., 7301 Woodlawn Ave., Chicago, Ill	
Ouren Seed Co., Council Bluffs, Iowa	Union Fork & Hoe Co., Columbus, Ohio
2 4 4 5 7 6	United States Seed Co., Inc., 100 S. 12th Blvd., St. Louis, Mo 99
Page Seed Co., The, Greene, N. Y	Urbana Laboratories, The, 406 N. Lincoln Ave., Urbana, Ill 182
Paramount Seed Co., Stockton, Calif	
Paterson & Co., Ltd., A. S., Dunedin, New Zealand	Valker-Christenson Co., Inc., Minot, N. D
Paxton Products Co., Box 68, Riverside, Calif	Vaughan's Seed Store, 601 W. Jackson Blvd., Chicago, Ill.; 47 Bar-
Pearce, Rex D., Moorestown, N. J	clay St., New York, N. Y
Pedrick & Sons, George R., Pedricktown, N. J 160	
Peppard Seed Co., Station A., Kansas City, Mo	Waller-Franklin Seed Co., Guadalupe, Calif
Perfection Foods Co., Battle Creek, Mich	Washburn-Wilson Seed Co., Moscow, Idaho 101
Pieters-Wheeler Seed Co., Gilroy, Calif	Wayland Dahlia Gardens, Wayland, Mich 91
Plantabbs Co., 1 W. Biddle St., Baltimore, Md	Weed-Knell, Aurora, Ill. 105
Pratt Co., B. G., 50 Church St., New York, N. Y	White Co., Joseph, Bridgeton, N. J
Premier Peat Moss Corp., 535 Fifth Ave., New York, N. Y 183	Wood & Sons, T. W., 11 S. 14th St., Richmond, Va
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Prunty Seed & Grain Co., 620 N. 2nd St., St. Louis, Mo	Woodruff & Sons, Inc., S. D., Orange, Conn
Pulverized Manure Co., The, 395 Union Stock Yards, Chicago, Ill 182	Wright, Stephenson & Co., Ltd., Wellington, New Zealand 71
Purcell Seed Co., Evansville, Ind	
	Yuma County Farmers Marketing Assn., Yuma, Ariz 71
Radwaner Seed Co., Inc., I. L., 115 Broad St., New York, N. Y 83	Tables, Allia, All
Rice Seed Co., W. A., Jerseyville, Ill	Zwan & Van Des Wales V
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